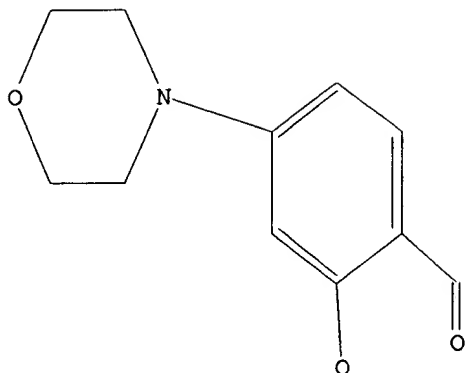


L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 12:59:03 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 43 TO ITERATE

100.0% PROCESSED 43 ITERATIONS 9 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 467 TO 1253
 PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 12:59:16 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 907 TO ITERATE

100.0% PROCESSED 907 ITERATIONS 88 ANSWERS
 SEARCH TIME: 00.00.01

L3 88 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	140.28	140.49

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FILE COVERS 1907 - 16 Dec 2002 VOL 137 ISS 25
FILE LAST UPDATED: 15 Dec 2002 (20021215/ED)

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=> s 13

L4 37 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:247796 CAPLUS

DOCUMENT NUMBER: 136:270284

TITLE: Benzopyran-type orange to red dye and organic electroluminescent device

INVENTOR(S): Sato, Hideki; Sato, Yoshiharu; Endo, Kyoko; Murata, Yukichi

PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

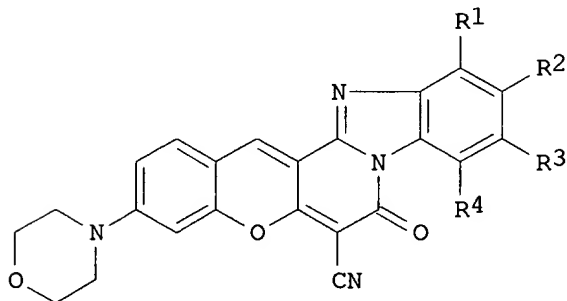
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002097382	A2	20020402	JP 2000-284749	20000920

OTHER SOURCE(S): MARPAT 136:270284
GI



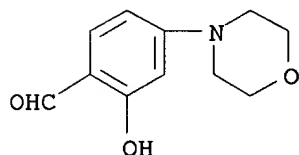
I

AB The morpholine-substituted benzopyran dye is that represented as I (R1-R4 = H, substituent; any groups in R1-R4 may form rings). The electroluminescent device involves a substrate, an anode, an org. layer, and a cathode laminated in this order wherein the org. layer contains I. The orange to red dye is suitable for thin film electroluminescent devices.

IT **70362-07-1**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for prepn. of morpholine-substituted benzopyran-type orange to red dye for org. electroluminescent device)

RN 70362-07-1 CAPLUS

CN Benzaldehyde, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:185097 CAPLUS

DOCUMENT NUMBER: 136:247591

TITLE: Preparation of arylmorpholines as inhibitors of DNA-dependent protein kinase and methods to potentiate cancer treatment

INVENTOR(S): Halbrook, James; Kesicki, Edward; Burgess, Laurence E.; Schlachter, Stephen T.; Eary, Charles T.; Schiro, Justin G.; Huang, Hongmei; Evans, Michael; Han, Yongxin

PATENT ASSIGNEE(S): Icos Corporation, USA

SOURCE: PCT Int. Appl., 247 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

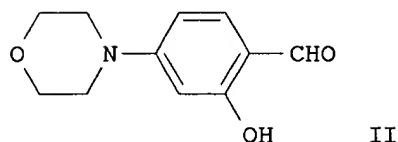
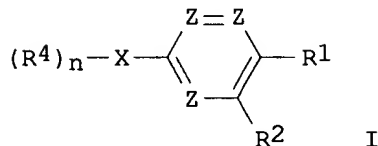
PATENT INFORMATION:

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WO 2002020500	A2	20020314	WO 2001-US26709	20010828
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AU 2001088432	A5	20020322	AU 2001-88432	20010828
US 2002165218	A1	20021107	US 2001-941897	20010828
PRIORITY APPLN. INFO.:			US 2000-229899P	P 20000901

WO 2001-US26709 W 20010828

OTHER SOURCE(S):
GI

MARPAT 136:247591



AB Compds. that inhibit DNA-dependent protein kinase, I [n = 0-4; X = (un)substituted 4-7 membered aliph. ring contg. 0-3 heteroatoms consisting of N, O and S (X = morpholinyl preferred); Z = independently N or CR3; R3 = independently H, halo, CHO, alkoxy, etc.; R1 = H, (un)substituted alkyl, cycloalkyl, CO, NO2, etc.; R2 = H, (un)substituted alkyl, carbamoyl, alkoxy, sulfamyl, etc.; with provision when X = morpholinyl, R2 and R4 and R3 = H at each occurrence, then R1 is different from COMe, phenylalkene, and NO2; and with the provision that when X = morpholinyl, R4 = H and Z = N at each occurrence, then R1 and R2 when taken together is different from triazole], were prepd. and compns. of I with other antineoplastic agents are claimed for use in cancer treatment therapy. Thus, II was prepd. in 23% yield via formylation of 3-(4-morpholinyl)phenol. II demonstrated an IC50 value of 400 nM in DNA-PK assay. Preliminary results of animal tumor model studies indicate II enhanced the tumorigenic effect of total body irradiation (using 100-500 rad gamma-radiation, II delayed tumor growth 1.2 to 1.8-fold relative to animals receiving radiation only).

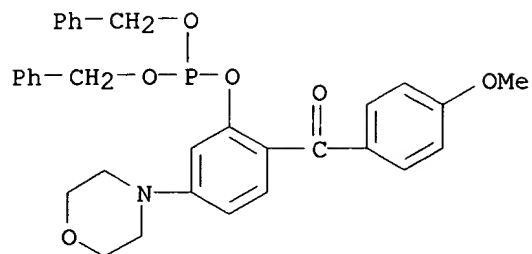
IT 404011-19-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

RN 404011-19-4 CAPLUS

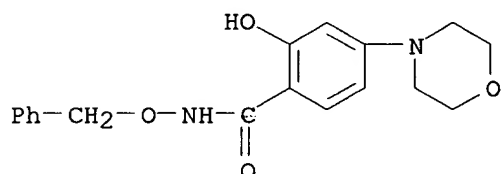
CN Phosphorous acid, 2-(4-methoxybenzoyl)-5-(4-morpholinyl)phenyl bis(phenylmethyl) ester (9CI) (CA INDEX NAME)

IT **404011-22-9**

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

RN 404011-22-9 CAPLUS

CN Benzamide, 2-hydroxy-4-(4-morpholinyl)-N-(phenylmethoxy)- (9CI) (CA INDEX NAME)

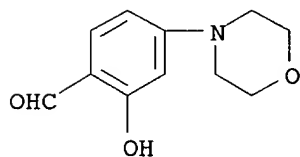
IT **70362-07-1P 404009-40-1P**

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(target compd.; prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

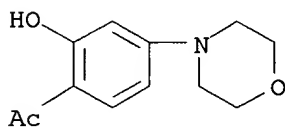
RN 70362-07-1 CAPLUS

CN Benzaldehyde, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 404009-40-1 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

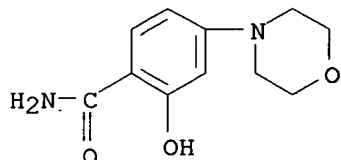


IT 37893-38-2P 207850-94-0P 404009-98-9P
 404010-21-5P 404010-32-8P 404010-44-2P
 404010-52-2P 404011-00-3P 404011-08-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (target compd.; prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

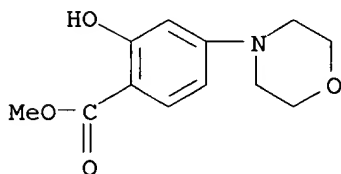
RN 37893-38-2 CAPLUS

CN Benzamide, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



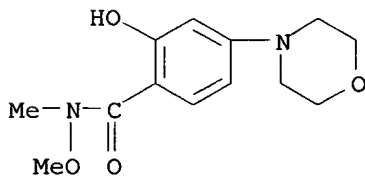
RN 207850-94-0 CAPLUS

CN Benzoic acid, 2-hydroxy-4-(4-morpholinyl)-, methyl ester (9CI) (CA INDEX NAME)



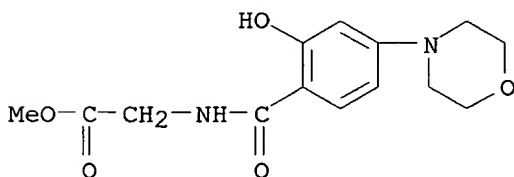
RN 404009-98-9 CAPLUS

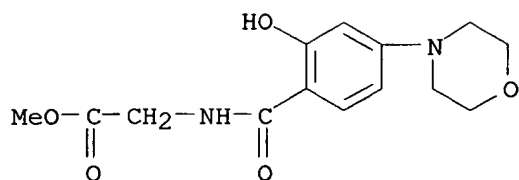
CN Benzamide, 2-hydroxy-N-methoxy-N-methyl-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 404010-21-5 CAPLUS

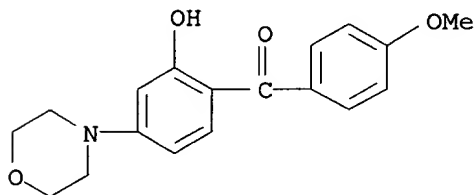
CN Glycine, N-[2-hydroxy-4-(4-morpholinyl)benzoyl]-, methyl ester (9CI) (CA INDEX NAME)





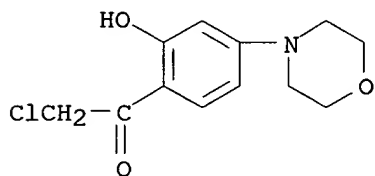
RN 404010-32-8 CAPLUS

CN Methanone, [2-hydroxy-4-(4-morpholinyl)phenyl] (4-methoxyphenyl)- (9CI)
(CA INDEX NAME)



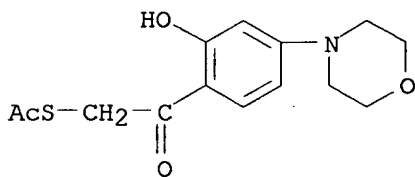
RN 404010-44-2 CAPLUS

CN Ethanone, 2-chloro-1-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



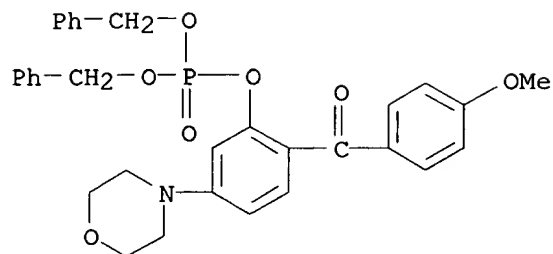
RN 404010-52-2 CAPLUS

CN Ethanethioic acid, S-[2-[2-hydroxy-4-(4-morpholinyl)phenyl]-2-oxoethyl]
ester (9CI) (CA INDEX NAME)



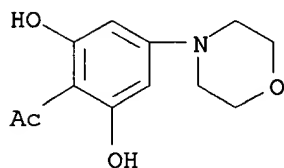
RN 404011-00-3 CAPLUS

CN Phosphoric acid, 2-(4-methoxybenzoyl)-5-(4-morpholinyl)phenyl
bis(phenylmethyl) ester (9CI) (CA INDEX NAME)



RN 404011-08-1 CAPLUS

CN Ethanone, 1-[2,6-dihydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



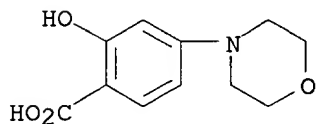
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 404011-01-4P 404011-13-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(target compd.; prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

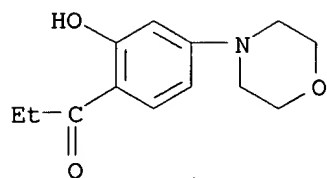
RN 404009-36-5 CAPLUS

CN Benzoic acid, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



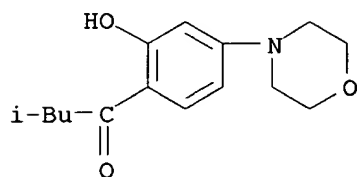
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CN 1-Propanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



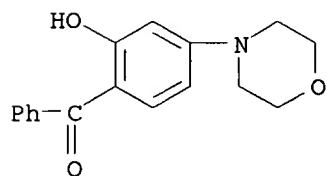
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CN 1-Butanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]-3-methyl- (9CI) (CA INDEX NAME)



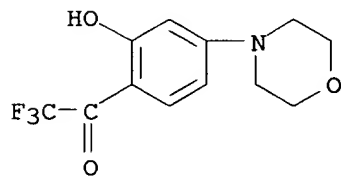
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CN Methanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]phenyl- (9CI) (CA INDEX NAME)



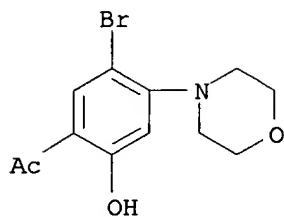
RN 404009-48-9 CAPLUS

CN Ethanone, 2,2,2-trifluoro-1-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



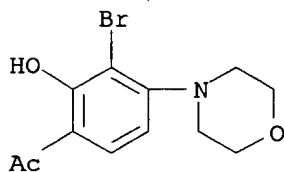
RN 404009-52-5 CAPLUS

CN Ethanone, 1-[5-bromo-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



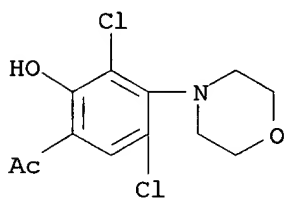
RN 404009-54-7 CAPLUS

CN Ethanone, 1-[3-bromo-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



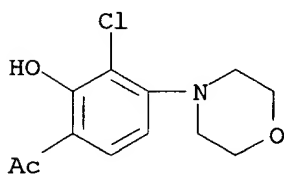
RN 404009-56-9 CAPLUS

CN Ethanone, 1-[3,5-dibromo-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



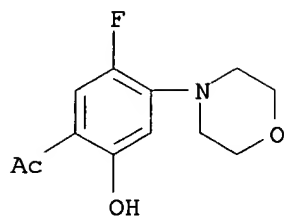
RN 404009-58-1 CAPLUS

CN Ethanone, 1-[3-chloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



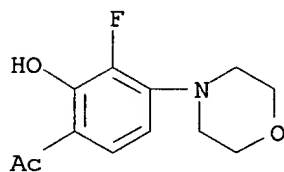
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CN Ethanone, 1-[5-fluoro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



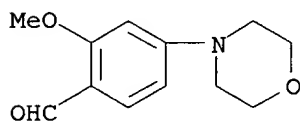
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CN Ethanone, 1-[3-fluoro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



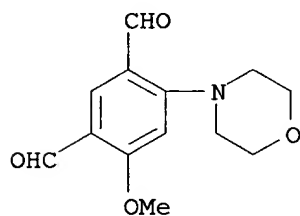
RN 404009-68-3 CAPLUS

CN Benzaldehyde, 2-methoxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



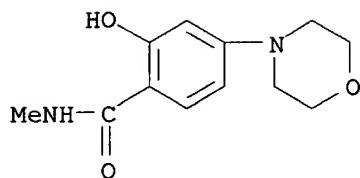
RN 404009-70-7 CAPLUS

CN 1,3-Benzenedicarboxaldehyde, 4-methoxy-6-(4-morpholinyl)- (9CI) (CA INDEX NAME)



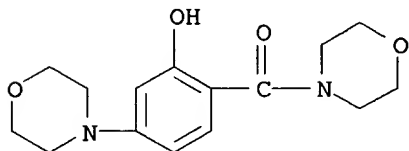
RN 404009-86-5 CAPLUS

CN Benzamide, 2-hydroxy-N-methyl-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



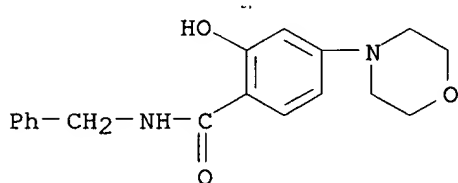
RN 404009-88-7 CAPLUS

CN Morpholine, 4-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



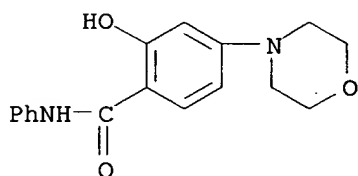
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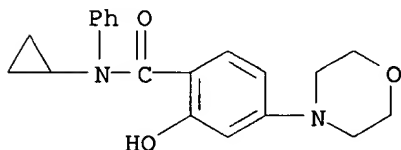
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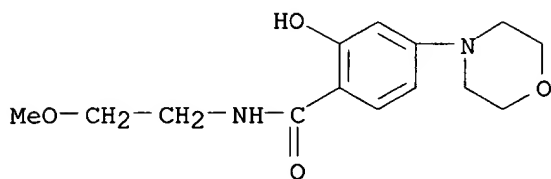
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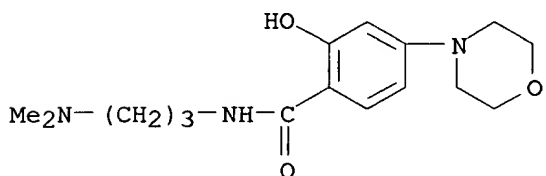
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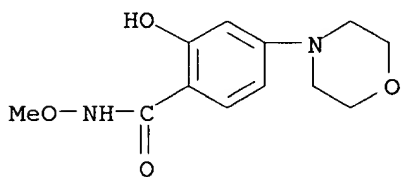
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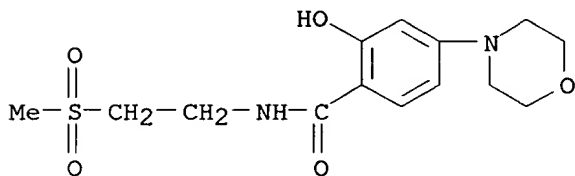
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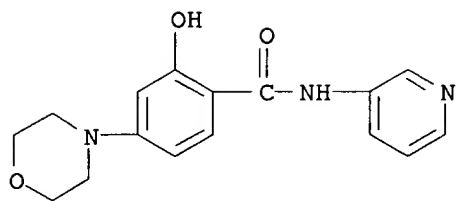
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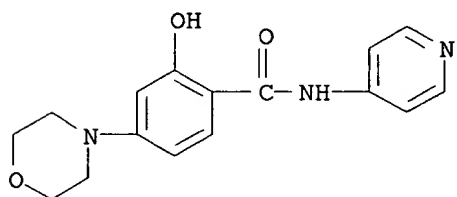
RN 404010-06-6 CAPLUS

CN Benzamide, 2-hydroxy-4-(4-morpholinyl)-N-3-pyridinyl- (9CI) (CA INDEX NAME)



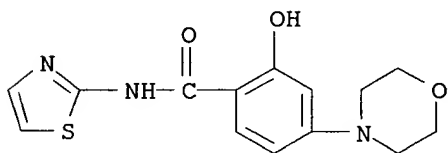
RN 404010-08-8 CAPLUS

CN Benzamide, 2-hydroxy-4-(4-morpholinyl)-N-4-pyridinyl- (9CI) (CA INDEX NAME)



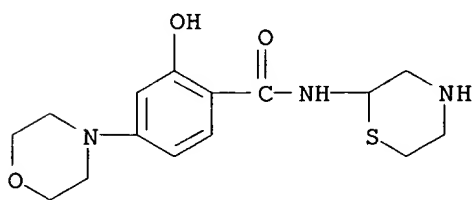
RN 404010-10-2 CAPLUS

CN Benzamide, 2-hydroxy-4-(4-morpholinyl)-N-2-thiazolyl- (9CI) (CA INDEX NAME)



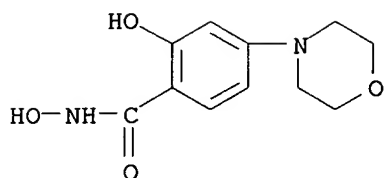
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CN Benzamide, 2-hydroxy-4-(4-morpholinyl)-N-2-thiomorpholinyl- (9CI) (CA INDEX NAME)



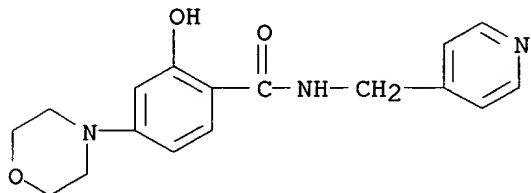
RN 404010-14-6 CAPLUS

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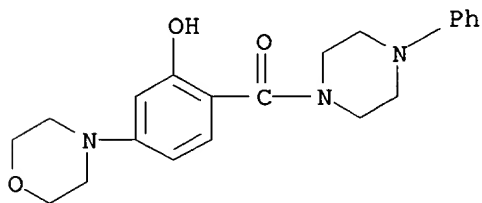
RN 404010-16-8 CAPLUS

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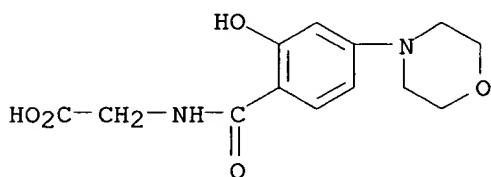
RN 404010-18-0 CAPLUS

CN Piperazine, 1-[2-hydroxy-4-(4-morpholinyl)benzoyl]-4-phenyl- (9CI) (CA INDEX NAME)



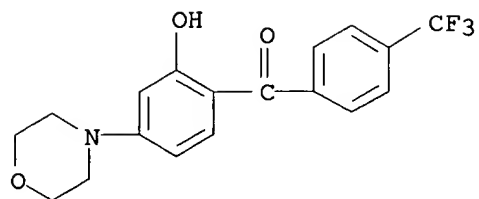
RN 404010-23-7 CAPLUS

CN Glycine, N-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



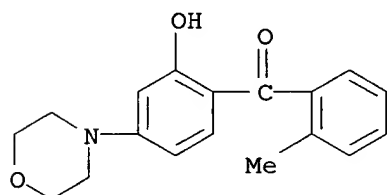
RN 404010-29-3 CAPLUS

CN Methanone, [2-hydroxy-4-(4-morpholinyl)phenyl][4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



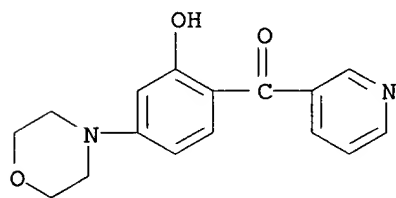
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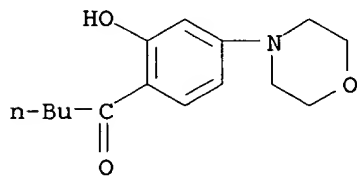
RN 404010-34-0 CAPLUS

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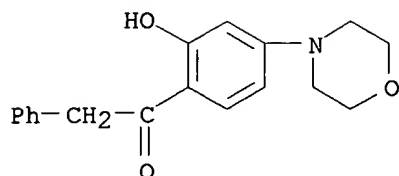
RN 404010-36-2 CAPLUS

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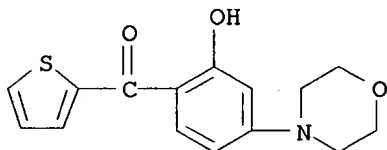
RN 404010-38-4 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]-2-phenyl- (9CI) (CA INDEX NAME)



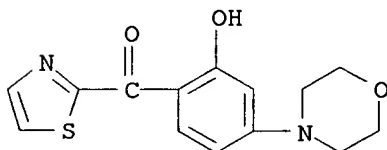
RN 404010-40-8 CAPLUS

CN Methanone, [2-hydroxy-4-(4-morpholinyl)phenyl]-2-thienyl- (9CI) (CA INDEX NAME)



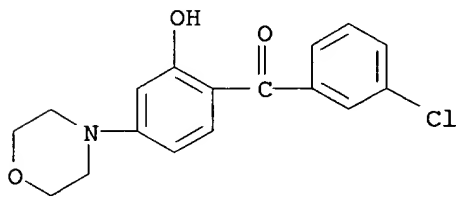
RN 404010-42-0 CAPLUS

CN Methanone, [2-hydroxy-4-(4-morpholinyl)phenyl]-2-thiazolyl- (9CI) (CA INDEX NAME)



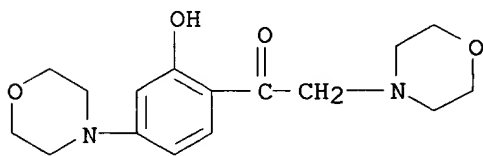
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CN Methanone, (3-chlorophenyl)[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

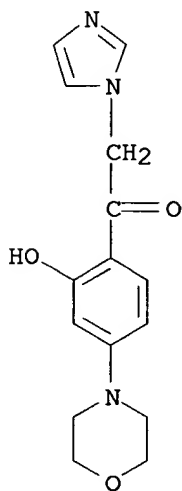


RN 404010-45-3 CAPLUS

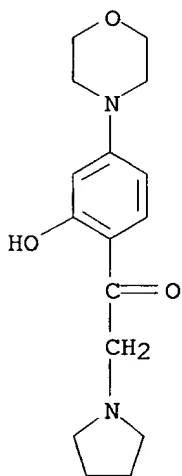
CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]-2-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 404010-46-4 CAPLUS

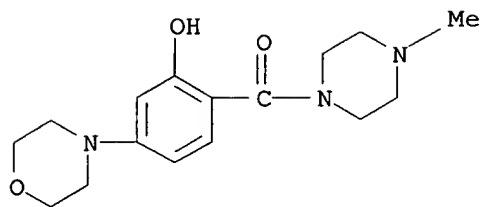
CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]-2-(1H-imidazol-1-yl)-
(9CI) (CA INDEX NAME)

RN 404010-47-5 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]-2-(1-pyrrolidinyl)- (9CI)
(CA INDEX NAME)

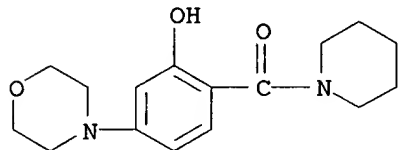
RN 404010-49-7 CAPLUS

CN Piperazine, 1-[2-hydroxy-4-(4-morpholinyl)benzoyl]-4-methyl- (9CI) (CA
INDEX NAME)



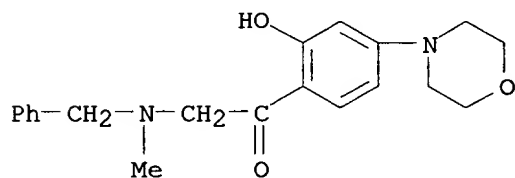
RN 404010-50-0 CAPLUS

CN Piperidine, 1-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



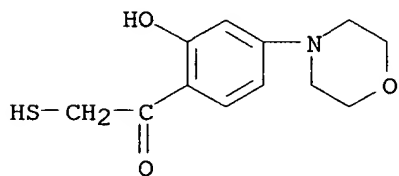
RN 404010-51-1 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]-2-[methyl(phenylmethyl)amino]- (9CI) (CA INDEX NAME)



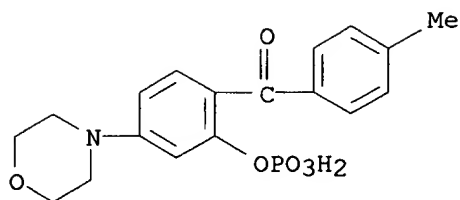
RN 404010-53-3 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]-2-mercapto- (9CI) (CA INDEX NAME)



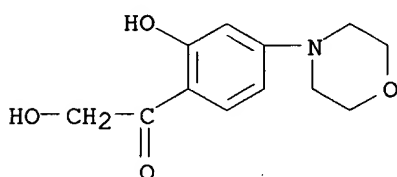
RN 404011-01-4 CAPLUS

CN Methanone, (4-methylphenyl)[4-(4-morpholinyl)-2-(phosphonooxy)phenyl]-, disodium salt (9CI) (CA INDEX NAME)



●2 Na

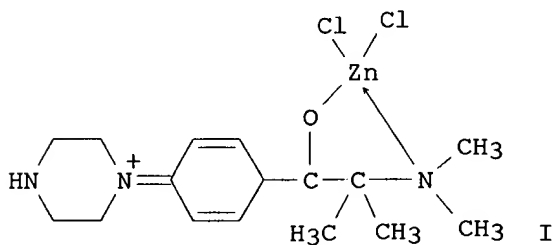
RN 404011-13-8 CAPLUS
 CN Ethanone, 2-hydroxy-1-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:537505 CAPLUS
 DOCUMENT NUMBER: 135:107723
 TITLE: Photoinitiators and applications therefor
 INVENTOR(S): Nohr, Ronald S.; MacDonald, John Gavin
 PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA
 SOURCE: U.S., 31 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6265458	B1	20010724	US 1999-407007	19990928

OTHER SOURCE(S): MARPAT 135:107723
 GI



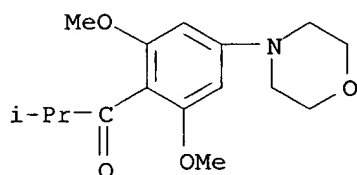
AB The present invention is directed to new, energy-efficient, photoinitiators comprise X1:CZ1M1, wherein X1 is a conjugated system such as one or more aryl groups or substituted aryl groups; Z1 is -O-, -S-, an alkyl group having from one to six carbon atoms, an ester moiety, a ketone moiety, an amine moiety, an imine moiety, an ether moiety, an aryl or substituted aryl group, a metal or non-metal, or a metal or non-metal contg. group, such as a zinc-contg. group or a boron-contg. group, resp.; and M1 is an alkyl group, a substituted alkyl group, or forms a five-member ring with Z1. The present invention is also directed to a method of generating a reactive species, which includes exposing one or more photoinitiators to radiation to form one or more reactive species. Also described are methods of polyimg. polymerizable materials, methods of curing an unsatd. oligomer/monomer mixt., and methods of laminating using the photoinitiators of the present invention. In addn., the present invention is directed to ink compns., adhesive compns. and resins, and methods of printing using the above-described photoinitiators. The photoinitiator I was prepd. from ZnCl₂ and 1-piperazine-2-dimethylamine-2-methyl-propanone.

IT 263010-97-5P 263010-98-6P 263010-99-7P
263011-00-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(photoinitiators and applications therefor)

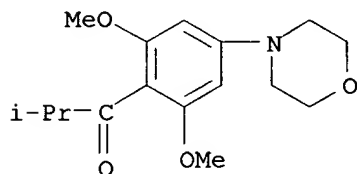
RN 263010-97-5 CAPLUS

CN 1-Propanone, 1-[2,6-dimethoxy-4-(4-morpholinyl)phenyl]-2-methyl- (9CI)
(CA INDEX NAME)



RN 263010-98-6 CAPLUS

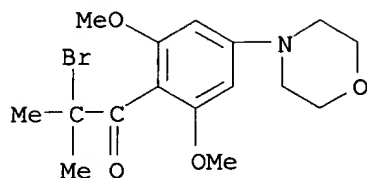
CN 1-Propanone, 1-[2,6-dimethoxy-4-(4-morpholinyl)phenyl]-2-methyl-,
hydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 263010-99-7 CAPLUS

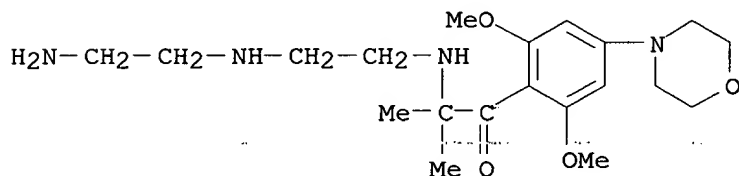
CN 1-Propanone, 2-bromo-1-[2,6-dimethoxy-4-(4-morpholinyl)phenyl]-2-methyl-,
hydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 263011-00-3 CAPLUS

CN 1-Propanone, 2-[[2-[(2-aminoethyl)amino]ethyl]amino]-1-[2,6-dimethoxy-4-(4-morpholinyl)phenyl]-2-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1167 THERE ARE 1167 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L4 ANSWER 4 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:227644 CAPLUS

DOCUMENT NUMBER: 132:251564

TITLE: Photoinitiators and applications therefor

PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA; Nohr, Ronald Sinclair; MacDonald, John Gavin

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018750	A2	20000406	WO 1999-US22590	19990928
WO 2000018750	A3	20000803		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

EP 1117698 A2 20010725 EP 1999-956500 19990928
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 BR 9914123 A 20020618 BR 1999-14123 19990928
 PRIORITY APPLN. INFO.: US 1998-102153P P 19980928
 US 1998-111950P P 19981211
 US 1999-121302P P 19990223
 US 1999-124939P A 19990318
 US 1999-132630P P 19990505
 WO 1999-US22590 W 19990928

AB The present invention is directed to new, energy-efficient, photoinitiators X1=CZ1M1 wherein X1 is a conjugated system such as one or more aryl groups or substituted aryl groups; Z1 is -O-, -S-, an alkyl group having from one to six carbon atoms, an ester moiety, a ketone moiety, an amine moiety, an imine moiety, an ether moiety, an aryl or substituted aryl group, a metal or non-metal, or a metal or non-metal contg. group, such as a zinc-contg. group or a boron-contg. group; resp.; and M1 is an alkyl group, a substituted alkyl group, or forms a five member ring with Z1. The present invention is also directed to a method of generating a reactive species, which includes exposing one or more photoinitiators to radiation to form one or more reactive species. Also described are methods of polymg. polymerizable materials, methods of curing an unsatd. oligomer/monomer mixt., and methods of laminating using the photoinitiators of the present invention. In addn., the present invention is directed to ink compns., adhesive compns. and resins, and methods of printing using the above-described photoinitiators.

IT 263010-97-5P 263010-98-6P 263010-99-7P

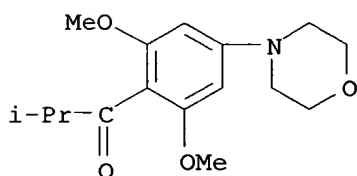
263011-00-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(photoinitiators and applications therefor)

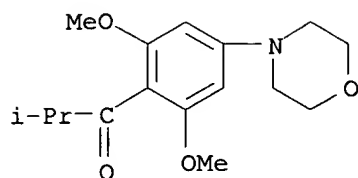
RN 263010-97-5 CAPLUS

CN 1-Propanone, 1-[2,6-dimethoxy-4-(4-morpholinyl)phenyl]-2-methyl- (9CI)
 (CA INDEX NAME)



RN 263010-98-6 CAPLUS

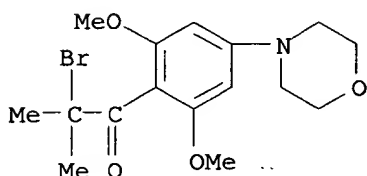
CN 1-Propanone, 1-[2,6-dimethoxy-4-(4-morpholinyl)phenyl]-2-methyl-,
 hydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 263010-99-7 CAPLUS

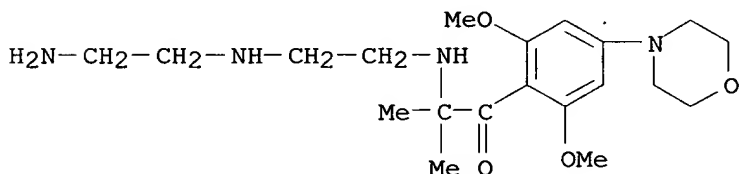
CN 1-Propanone, 2-bromo-1-[2,6-dimethoxy-4-(4-morpholinyl)phenyl]-2-methyl-, hydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 263011-00-3 CAPLUS

CN 1-Propanone, 2-[[2-[(2-aminoethyl)amino]ethyl]amino]-1-[2,6-dimethoxy-4-(4-morpholinyl)phenyl]-2-methyl- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:62598 CAPLUS

DOCUMENT NUMBER: 132:107708

TITLE: Preparation of alkyl arylureas and arylacetamides with cholesterol acyl transferase inhibition effects

INVENTOR(S): Yagisawa, Hiroaki; Naito, Satoru; Takamura, Minoru; Koga, Sadaichiro

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 67 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

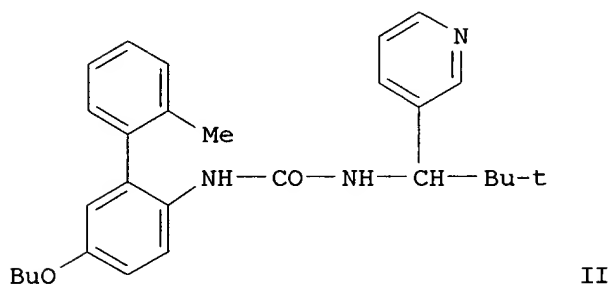
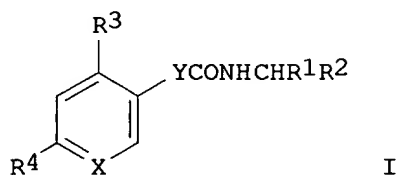
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000026294	A2	20000125	JP 1999-124103	19990430
PRIORITY APPLN. INFO.:			JP 1998-124386	19980507
OTHER SOURCE(S):			MARPAT 132:107708	

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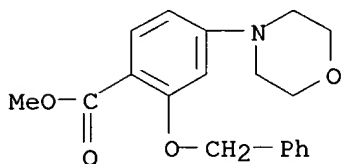
AB Title compds. [I; X = CH, N; Y = methylene and imino; R1 = H, C1-C8alkyl; R2 = 6 member heterocyclic; R3 = C6-C10 aryl; R4 = H, halogen, C1-C8 alkyl, C1-C8 alkoxy, C1-C8 alkylthio, C1-C10 alkylamino; 3-6 member cyclicamino], pharmaceutical acceptable salts are prepd. and have cholesterol acyl transferase inhibitory effects which offer as remedy agents or the preventive agents of various diseases which originate in the ACAT inhibitory effect. Thus, the title compd. II was prepd.

IT **207850-93-9P 207850-94-0P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of alkyl arylureas and arylacetamides with cholesterol acyl transferase inhibition effects)

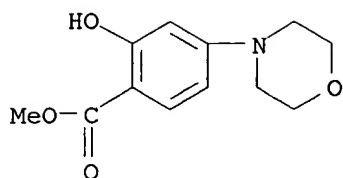
RN 207850-93-9 CAPLUS

CN Benzoic acid, 4-(4-morpholinyl)-2-(phenylmethoxy)-, methyl ester (9CI)
(CA INDEX NAME)



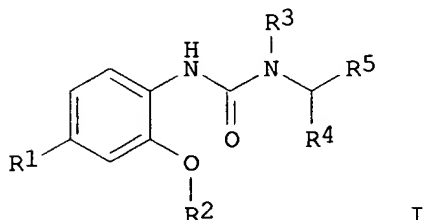
RN 207850-94-0 CAPLUS

CN Benzoic acid, 2-hydroxy-4-(4-morpholinyl)-, methyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 37 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2000:59963 CAPLUS
 DOCUMENT NUMBER: 132:102839
 TITLE: Phenylenediamine derivatives as ACAT inhibitors and their use
 INVENTOR(S): Yanagisawa, Hiroaki; Takamura, Minoru; Fujioka, Tomoyuki
 PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 76 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000026293	A2	20000125	JP 1999-124102	19990430
PRIORITY APPLN. INFO.:			JP 1998-124385	19980507
OTHER SOURCE(S):	MARPAT 132:102839			
GI				



AB The title derivs. I [R1 = NH2, C1-6 alkylamino, di(C1-6 alkyl)amino, C3-8 cyclic amino; R2 = C1-6 alkyl, C7-14 aralkyl which may have 1 halo, C1-6 alkyl, C1-6 alkoxy, C11-6 alkylthio, NO2; R3, R4 = C, C1-6 alkyl; R5 = Ph or pyridyl which may have 1 halo, C1-6 alkyl, C1-6 alkoxy, C11-6 alkylthio, NO2] or their pharmacol. acceptable salts are prepd. I suppress lipid peroxidn. and inhibit ACAT, and are useful for prevention and treatment of hyperlipemia, atherosclerosis, etc. IC50 of N-[2-benzyloxy-4-(1-pyrrolidinyl)phenyl]-N'-[2,2-dimethyl-1-(3-pyridyl)propyl]urea (II; prepn. given) against ACAT of rat liver microsome was 197 ng/mL. Capsules of II were also prepd.

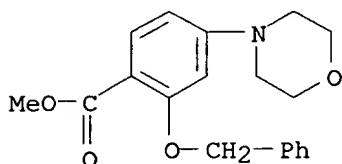
IT 207850-93-9P, Methyl 2-benzyloxy-4-morpholinobenzoate
 255871-20-6P 255871-22-8P 255871-34-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepn. of phenylenediamine derivs. as ACAT inhibitors)

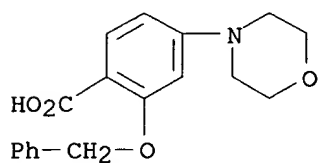
RN 207850-93-9 CAPLUS

CN Benzoic acid, 4-(4-morpholinyl)-2-(phenylmethoxy)-, methyl ester (9CI)
(CA INDEX NAME)



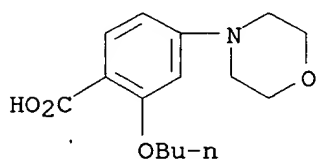
RN 255871-20-6 CAPLUS

CN Benzoic acid, 4-(4-morpholinyl)-2-(phenylmethoxy)- (9CI) (CA INDEX NAME)



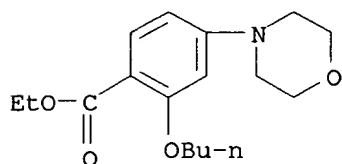
RN 255871-22-8 CAPLUS

CN Benzoic acid, 2-butoxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



RN 255871-34-2 CAPLUS

CN Benzoic acid, 2-butoxy-4-(4-morpholinyl)-, ethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:595169 CAPLUS

DOCUMENT NUMBER: 131:228641

TITLE: Preparation of benzofurylpyrone derivatives and effects on lipid metabolism

INVENTOR(S): Naniwa, Yoshimitsu; Imai, Hiroshi; Ida, Tomohide; Muratani, Emiko; Kitai, Kazuo; Sugimoto, Yoshinori; Kosugi, Tomomi; Takeuchi, Akiko; Watanabe, Kunihiro; Tomiyama, Takami; Takeuchi, Tomio; Hamada, Masa

PATENT ASSIGNEE(S): Teijin Limited, Japan; Microbial Chemistry Research Foundation

SOURCE: PCT Int. Appl., 176 pp.
CODEN: PIXXD2

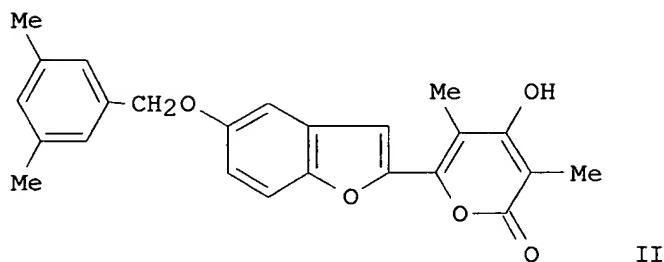
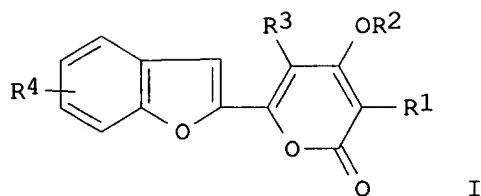
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9946262	A1	19990916	WO 1999-JP1225	19990312
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2323456	AA	19990916	CA 1999-2323456	19990312
AU 9932773	A1	19990927	AU 1999-32773	19990312
BR 9908706	A	20001121	BR 1999-8706	19990312
EP 1063235	A1	20001227	EP 1999-939191	19990312
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
NO 2000004517	A	20000911	NO 2000-4517	20000911
PRIORITY APPLN. INFO.:			JP 1998-61356	A 19980312
			WO 1999-JP1225	W 19990312
OTHER SOURCE(S):	MARPAT 131:228641			
GI				



AB Title compds. [I; wherein R1 represents hydrogen or C1-5 alkyl; R2 represents hydrogen, -CO-R5 or SO2R6; R3 represents hydrogen, C1-5 alkyl, etc.; and R4 is a substituent of a definite structure attached to the 4-, 5-, 6- or 7-position of the benzofuran ring] and salts thereof are prepd. and tested as remedies for hyperglyceridemia, lipid metab. improving agents, preventives/remedies for arteriosclerosis, etc. Thus, the title compd. II was prepd.

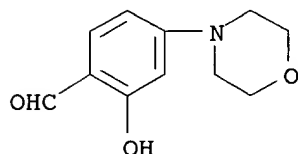
IT **70362-07-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of benzofurylpyrones and effects on lipid metab.)

RN 70362-07-1 CAPLUS

CN Benzaldehyde, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:253739 CAPLUS

DOCUMENT NUMBER: 130:325088

TITLE: Preparation of acylhydrazone derivatives as Maillard reaction inhibitors and active oxygen scavengers

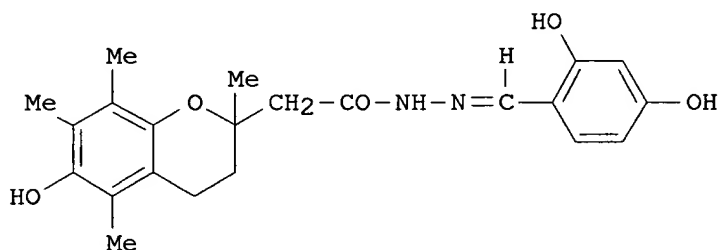
INVENTOR(S): Inoue, Hitoshi; Horigome, Masato; Kinoshita, Nobuhiro; Shibayama, Toshie

PATENT ASSIGNEE(S): Nisshin Flour Milling Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 80 pp.

DOCUMENT TYPE: CODEN: JKXXAF
 Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11106371	A2	19990420	JP 1998-177222	19980624
PRIORITY APPLN. INFO.:			JP 1997-179754	19970704
OTHER SOURCE(S):	MARPAT 130:325088			
GI				



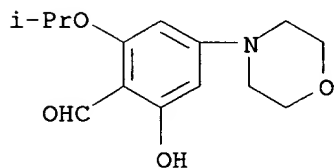
AB The title compds. XWY [X = benzene ring, chroman ring, etc.; Y = (un)substituted Ph, etc.; W = CONHN:CH, etc.] are prepd. The title compd. I in vitro showed IC50 of 4.2 .mu.M against the Maillard reaction.

IT 223723-57-7

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of acylhydrazone derivs. as Maillard reaction inhibitors and active oxygen scavengers)

RN 223723-57-7 CAPLUS

CN Benzaldehyde, 2-hydroxy-6-(1-methylethoxy)-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:222447 CAPLUS

DOCUMENT NUMBER: 130:237576

TITLE: Preparation of benzoxazinone or quinolinone compounds as tocolytic oxytocin receptor antagonists

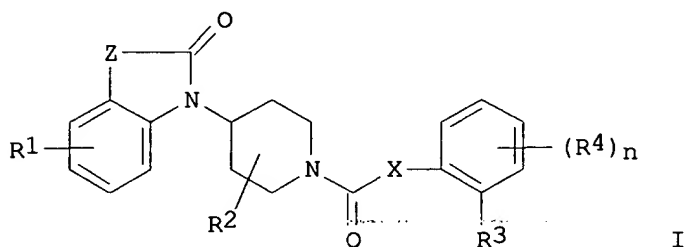
INVENTOR(S): Bell, Ian M.; Freidinger, Roger M.; Perlow, Debra S.; Sparks, Michelle A.; Stauffer, Kenneth; Williams, Peter D.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: Brit. UK Pat. Appl., 139 pp.

CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2326410	A1	19981223	GB 1998-13103	19980617
US 6090805	A	20000718	US 1998-95232	19980610
PRIORITY APPLN. INFO.:			US 1997-50139P	P 19970618
			GB 1998-229	A 19980106
OTHER SOURCE(S):		MARPAT 130:237576		
GI				



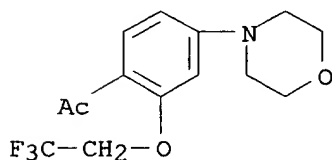
AB The title compds. I [Z = CH₂O where O is attached directly to the carbonyl, CH:CH, CH₂CH₂; X = O, CH₂, CF₂; R₁ = H, halo, alkyl; R₂ = H, alkyl, CH₂OH, CONH₂; R₃ = H, alkoxy, = (un)substituted Ph, etc.; R₄ = H, halo, alkoxy, etc.], tocolytic oxytocin receptor antagonists, were prepd. E.g, 1-(1-(2-(2,2,2-trifluoroethoxy)-4-fluorophenylacetyl)piperidin-4-yl)-4H-3,1-benzoxazin-2(1H)-one was prepd. in several steps.

IT **221286-25-5P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of benzoxazinone or quinolinone compds. as tocolytic oxytocin receptor antagonists)

RN 221286-25-5 CAPLUS

CN Ethanone, 1-[4-(4-morpholinyl)-2-(2,2,2-trifluoroethoxy)phenyl]- (9CI)
 (CA INDEX NAME)



L4 ANSWER 10 OF 37 CAPLUS COPYRIGHT 2002 ACS

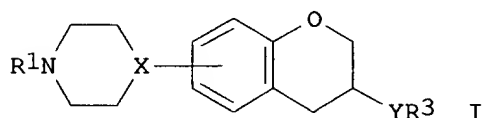
ACCESSION NUMBER: 1999:216914 CAPLUS

DOCUMENT NUMBER: 130:237475

TITLE: Preparation of substituted chroman derivatives and

their effects at the h5-HT1B receptor
 INVENTOR(S): Berg, Stefan; Nylof, Martin; Ross, Svante; Thorberg, Seth-Olov
 PATENT ASSIGNEE(S): Astra Aktiebolag, Swed.
 SOURCE: PCT Int. Appl., 80 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9914212	A1	19990325	WO 1998-SE1603	19980909
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
ZA 9807813	A	19990318	ZA 1998-7813	19980827
CA 2304037	AA	19990325	CA 1998-2304037	19980909
AU 9891932	A1	19990405	AU 1998-91932	19980909
AU 734580	B2	20010614		
BR 9812238	A	20000718	BR 1998-12238	19980909
EP 1025095	A1	20000809	EP 1998-944377	19980909
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001516754	T2	20011002	JP 2000-511761	19980909
US 6479497	B1	20021112	US 1998-171570	19981021
NO 2000001402	A	20000509	NO 2000-1402	20000317
PRIORITY APPLN. INFO.:			SE 1997-3377	A 19970918
			WO 1998-SE1603	W 19980909
OTHER SOURCE(S):			MARPAT 130:237475	
GI				



AB Piperidyl- or piperazinyl-substituted dihydro-2H-1-benzopyran derivs. I [X = N, CH; Y = NR₂CH₂, CH₂NR₂, NR₂CO, CONR₂, NR₂SO₂, NR₂CONR₂ wherein R₂ = H, C₁-C₆ alkyl; R₁ = H, C₁-C₆ alkyl, C₃-C₆ cycloalkyl; R₃ = C₁-C₆ alkyl, C₃-C₆ cycloalkyl, (CH₂)_n-aryl, wherein aryl is Ph or a heteroarom. ring contg. one or two heteroatoms selected from N, O and S and which may be mono- or di-substituted; n = 0-4], possessing selective effects at the h5-HT1B receptor, were prepd. E.g., reaction of (S)-N-[5-(4-methylpiperazin-1-yl)-3,4-dihydro-2H-1-benzopyran-3-yl]-4-(piperazin-1-yl)benzamide with 2-benzyloxyethyl mesylate in presence of K₂CO₃ gave (S)-N-[5-(4-methylpiperazin-1-yl)-3,4-dihydro-2H-1-benzopyran-3-yl]-4-[4-(2-benzyloxyethyl)piperazin-1-yl]benzamide.

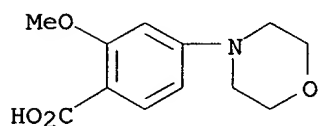
IT 221360-90-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of substituted chroman derivs. and their effects at the h5-HT1B receptor)

RN 221360-90-3 CAPLUS

CN Benzoic acid, 2-methoxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



IT 221360-91-4P

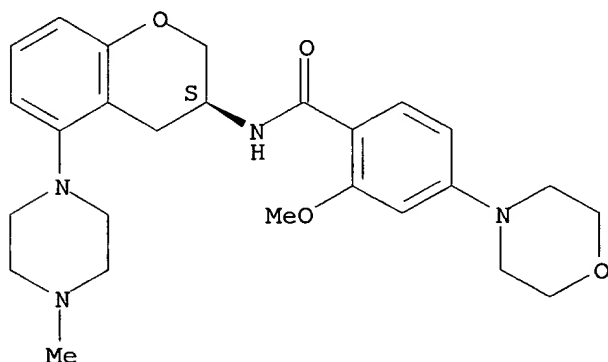
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of substituted chroman derivs. and their effects at the h5-HT1B receptor)

RN 221360-91-4 CAPLUS

CN Benzamide, N-[(3S)-3,4-dihydro-5-(4-methyl-1-piperazinyl)-2H-1-benzopyran-3-yl]-2-methoxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:341545 CAPLUS

DOCUMENT NUMBER: 129:27897

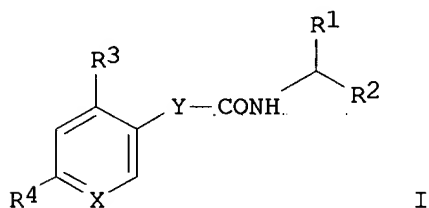
TITLE: Preparation of arylureas or arylmethylcarbamoyl derivatives as acyl-CoA-cholesterol acyltransferase inhibitors

INVENTOR(S): Yanagisawa, Hiroaki; Naito, Satoru; Takamura, Makoto; Koga, Teiichiro

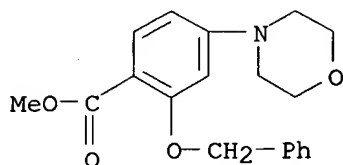
PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan; Yanagisawa, Hiroaki; Naito, Satoru; Takamura, Makoto; Koga, Teiichiro

SOURCE: PCT Int. Appl., 157 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9821185	A1	19980522	WO 1997-JP4053	19971107
W: AU, CA, CN, CZ, HU, ID, IL, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9748850	A1	19980603	AU 1997-48850	19971107
JP 10182608	A2	19980707	JP 1997-305109	19971107
PRIORITY APPLN. INFO.:			JP 1996-296870	19961108
			WO 1997-JP4053	19971107
OTHER SOURCE(S):		MARPAT 129:27897		
GI				

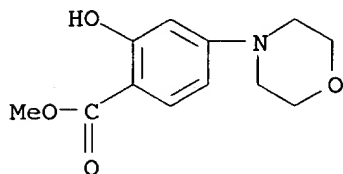


- AB The title compds. [I; X = CH or N; Y = CH₂ or imino; R₁ = H or alkyl; R₂ = N-contg. heteroaryl; R₃ = (un)substituted aryl; R₄ = H, halo, alkyl, alkoxy, alkylthio, aryl, aryloxy, arylthio, aralkyl, aralkyloxy, aralkylthio, dialkylamino, cyclic amino, etc.] or pharmacol. acceptable salts thereof are prepd. I, possessing acyl-CoA-cholesterol acyltransferase (ACAT) inhibitory activity, are useful for prevention and treatment of hyperlipemia, atherosclerosis, and related diseases. Thus, 2-(2-methylphenyl)-4-phenylbenzoic acid (prepn. given) was reacted with 3-(1-amino-2,2-dimethylpropyl)pyridine in the presence of diphenylphosphorylazide and Et₃N to give 64% I (Y = NH, R₁ = tert-Bu, R₂ = 3-pyridyl, R₃ = o-MeC₆H₄, R₄ = Ph, X = CH) (II), which showed IC₅₀ of 104 ng/mL against ACAT. A hard capsule formulation contg. II was also prepd.
- IT **207850-93-9P 207850-94-0P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of arylureas or arylmethylcarbamoyl derivs. as acyl-CoA-cholesterol acyltransferase inhibitors)
- RN 207850-93-9 CAPLUS
- CN Benzoic acid, 4-(4-morpholinyl)-2-(phenylmethoxy)-, methyl ester (9CI)
 (CA INDEX NAME)



RN 207850-94-0 CAPLUS

CN Benzoic acid, 2-hydroxy-4-(4-morpholinyl)-, methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 37 "CAPLUS" COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:150310 CAPLUS

DOCUMENT NUMBER: 124:206893

TITLE: Use of benzaldehydes to mark hydrocarbons and method for their determination

INVENTOR(S): Kraeh, Claudia; Schloesser, Ulrike; Beck, Karin Heidrun; Mayer, Udo

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 13 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4424712	A1	19960118	DE 1994-4424712	19940713
WO 9602613	A1	19960201	WO 1995-EP2558	19950703
W: AU, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, MX, NO, NZ, PL, RU, SG, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2195019	AA	19960201	CA 1995-2195019	19950703
AU 9529263	A1	19960216	AU 1995-29263	19950703
AU 686838	B2	19980212		
EP 770119	A1	19970502	EP 1995-924960	19950703
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1155898	A	19970730	CN 1995-194718	19950703
HU 76687	A2	19971028	HU 1997-62	19950703
JP 10502693	T2	19980310	JP 1995-504633	19950703
BR 9508401	A	19980519	BR 1995-8401	19950703
NO 9700126	A	19970310	NO 1997-126	19970110
FI 9700108	A	19970312	FI 1997-108	19970110

PRIORITY APPLN. INFO.:

DE 1994-4424712

19940713

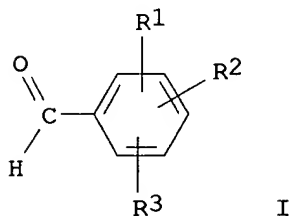
WO 1995-EP2558

19950703

OTHER SOURCE(S):

MARPAT 124:206893

GI



AB Benzaldehydes of formula I (where R1, R2, and R3 are H, hydroxide, C1-15 alkyl, C1-15 alkoxy, cyano, nitro, or a group of formula NR4R5 or COOR6, R4 is a substituted C1-15 alkyl or a rest of formula L-NX1-X2, where L is C2-8 alkylene and X1 and X2 independently C1-8 alkyl or forms with them a heterocyclic rest, and R6 is hydrogen, optionally substituted C1-15 alkyl or L-NX1-X2) are suitable for use as markers for hydrocarbons. The compds. are easily detd.

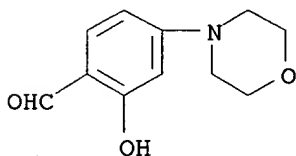
IT 70362-07-1

RL: ANT (Analyte); MOA (Modifier or additive use); ANST (Analytical study); USES (Uses)

(marker; use of benzaldehydes to mark hydrocarbons and method for their detn.)

RN 70362-07-1 CAPLUS

CN Benzaldehyde, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:295954 CAPLUS

DOCUMENT NUMBER: 122:132911

TITLE: Reaction of 2-ethoxycarbonyl(carboxy)-5,6,7,8-tetrafluorochromones with N-nucleophiles

AUTHOR(S): Saloutin, V. I.; Bazyl, I. T.; Skryabina, Z. E.; Chupakhin, O. N.

CORPORATE SOURCE: Inst. Org. Synthesis, Ural Branch Russian Academy Sciences, Ekaterinburg, 620219, Russia

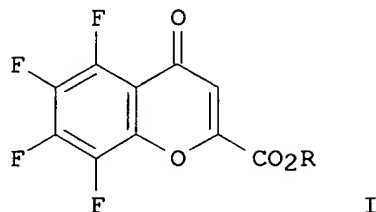
SOURCE: Izvestiya Akademii Nauk, Seriya Khimicheskaya (1994), (5), 904-7

CODEN: IASKEA

PUBLISHER: Institut Organicheskoi Khimii im. N. D. Zelinskogo Rossiiskoi Akademii Nauk

DOCUMENT TYPE: Journal

LANGUAGE: Russian
GI



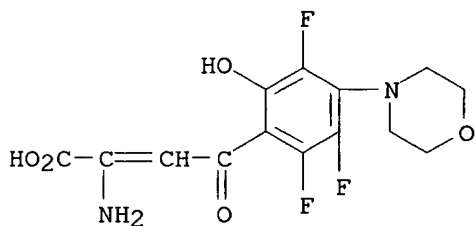
AB The direction of reactions of title compds. (I; R = Et, H) with ammonia, methylamine, hexylamine, and aniline depends on the inductive effect of CO₂R and on the basicity of the amine. Nucleophilic arom. replacement of fluorine takes place in the reaction of I (R = Et) with secondary amines (morpholine, N-methylpiperazine) and ethylenediamine.

IT **161037-57-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 161037-57-6 CAPLUS

CN 2-Butenoic acid, 2-amino-4-oxo-4-[2,3,5-trifluoro-6-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 14 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:545415 CAPLUS

DOCUMENT NUMBER: 121:145415

TITLE: Recording material using fluoran compounds

INVENTOR(S): Ootsuji, Atsuo; Nakatsuka, Masakatsu; Hasegawa, Kyoharu; Yoshikawa, Kazuyoshi

PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

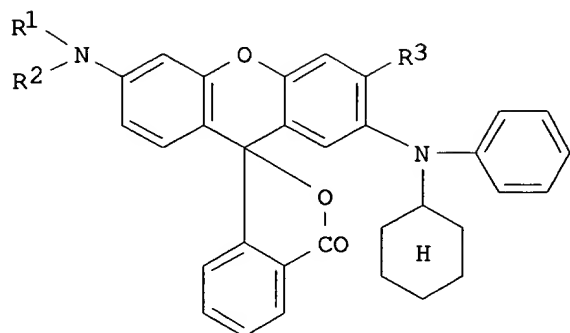
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 05278325
JP 3048274

A2 19931026
B2 20000605

JP 1992-76570 19920331

GI



I

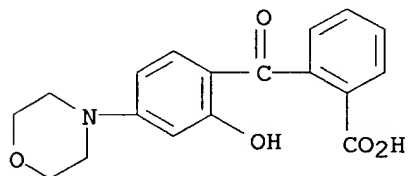
AB In the title recording material utilizing an electron donating color former and an electron accepting compd. to give color by contacting them, the color former employs .gtoreq.1 fluoran compd. I (R1, R2 = C1-12 alkyl, C3-12 alkoxy, C5-12 cycloalkyl; R and R2 may joint to form a 5-6-membered heterocycle with N; R3 = H, C1-4 alkyl). The recording material shows both good material and image storage stability.

IT 55165-07-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, electron donating color former from, for recording material)

RN 55165-07-6 CAPLUS

CN Benzoic acid, 2-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:265044 CAPLUS

DOCUMENT NUMBER: 120:265044

TITLE: Synthesis and spectral properties of new fluorescent probes for potassium

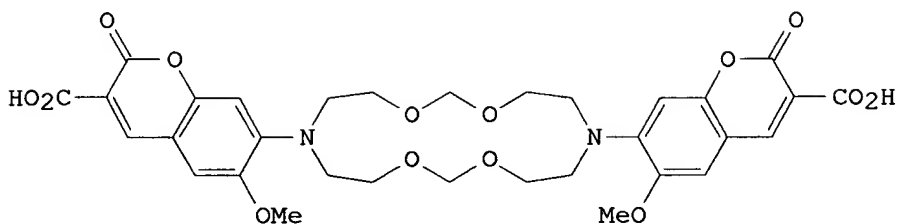
AUTHOR(S): Crossley, Roger; Goolamali, Zia; Gosper, Jeffrey J.; Sammes, Peter G.

CORPORATE SOURCE: Dep. Chem., Brunel Univ., Uxbridge/Middlesex, UB8 3PH, UK

SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1994), (3), 513-20

CODEN: JCPKBH; ISSN: 0300-9580

DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



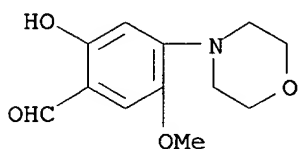
AB Studies on the prepn. and properties of two new, selective fluorescent probes CD18, (I, R = CO₂H) and C18 (II, R = H) for potassium are described. The probes incorporate the 1,10-diaza-18-crown-6 chelating group for the ion and the coumarin group as the fluorophore. The probes are compared with the known reagent PBFI. CD18 shows considerably greater selectivity for potassium over sodium than PBFI.

IT **154519-08-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and condensation of, with di-Me malonate)

RN 154519-08-1 CAPLUS

CN Benzaldehyde, 2-hydroxy-5-methoxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)

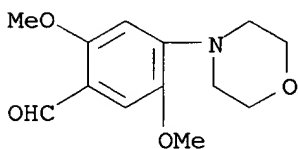


IT **154519-07-0P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. and demethylation of)

RN 154519-07-0 CAPLUS

CN Benzaldehyde, 2,5-dimethoxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:149009 CAPLUS

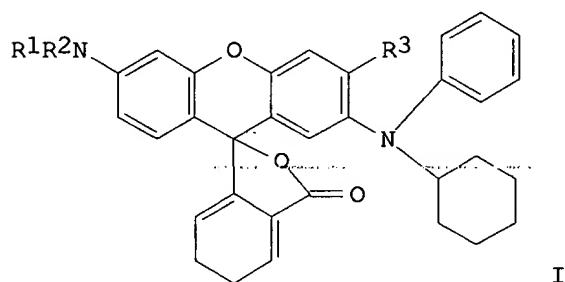
DOCUMENT NUMBER: 120:149009

TITLE: Fluoran compound for recording material

INVENTOR(S): Ootsuji, Atsuo; Nakatsuka, Masakatsu
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05247051	A2	19930924	JP 1992-324346	19921203
JP 3137473	B2	20010219		
PRIORITY APPLN. INFO.:			JP 1991-327411	A1 19911211
OTHER SOURCE(S):			MARPAT 120:149009	

GI



AB The fluoran compd. consists of I (R1-2 = C1-12 alkyl, C3-12 alkoxyalkyl, C5-12 cycloalkyl, NR1R2 may form 5- or 6-membered heterocyclic group; R3 = C1-4 alkyl). The fluoran compd. is useful for thermal or pressure-sensitive recording. The fluoran compd. shows good red- or green-coloring.

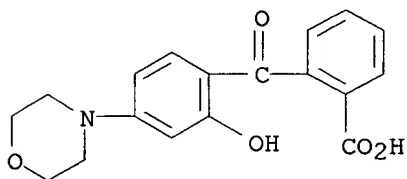
IT **55165-07-6**

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with cyclohexyldiphenylamine derivs. in prepn. of fluoran compds.)

RN 55165-07-6 CAPLUS

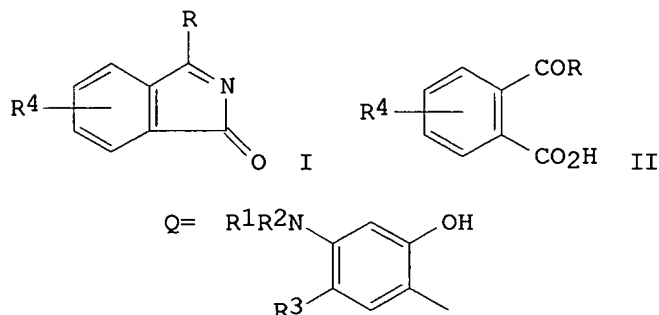
CN Benzoic acid, 2-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 17 OF 37 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1990:55599 CAPLUS
 DOCUMENT NUMBER: 112:55599

TITLE: Preparation and hydrolysis of 3-(4-amino-2-hydroxyphenyl)-1-oxo-isoindolenines
 INVENTOR(S): Kranz, Joachim; Landmann, Bernd; Mayer, Udo
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 7 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3800577	A1	19890720	DE 1988-3800577	19880112
EP 327792	A2	19890816	EP 1989-100028	19890103
EP 327792	A3	19891004		
EP 327792	B1	19931222		
R: CH, DE, FR, GB, IT, LI				
US 4904798	A	19900227	US 1989-295462	19890110
JP 01213261	A2	19890828	JP 1989-2964	19890111
PRIORITY APPLN. INFO.:			DE 1988-3800577	19880112
OTHER SOURCE(S):	CASREACT 112:55599; MARPAT 112:55599			
GI				



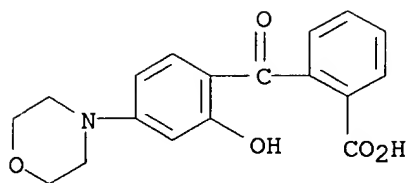
AB The title compds. [I; R = Q; R1 = H, (un)substituted C1-12 alkyl, C5-8 cycloalkyl, Ph; R2 = H, (un)substituted C1-6 alkyl; NR1R2 = morpholino, pyrrolidino, piperdino; R3 = H, Me; R4 = H, Cl, C1-4 alkyl, NO2] were prepd. by condensation of 3-aminophenols QH with 3-amino-1-oxo-isoindolenines I (R = NH2, R4 as above) in the presence of acids, and hydrolyzed to II (R and R4 as defined). Thus, 4,3-Me(EtNH)C6H3OH was heated 1 h at 120.degree. with I.HCl (R = NH2, R4 = H) in DMF to give I (R = Q, R1 = Et, R2 = R4 = H, R3 = Me) which was refluxed 5 h in 20% aq. KOH to give II (R, R1, R2, R3, R4 unchanged).

IT **55165-07-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 55165-07-6 CAPLUS

CN Benzoic acid, 2-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:18106 CAPLUS

DOCUMENT NUMBER: 110:18106

TITLE: Antiemetic activity and structural features of 4,5-substituted 2-methoxy-N-(2-diethylaminoethyl)benzamides

AUTHOR(S): Mukhomorov, V. K.; Semenova, G. K.; Shagoyan, M. G.

CORPORATE SOURCE: Voenno-Med. Akad., Leningrad, USSR

SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1988), 22(9), 1108-11

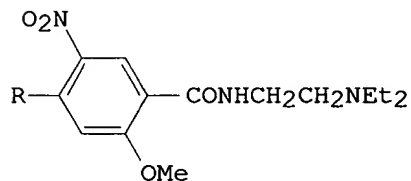
CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 110:18106

GI



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AB I (R = H, NMe₂, NH₂, NEt₂, morpholinyl, NO₂, etc.) were prepd.; e.g., I (R = NHCH₂CH:CH₂) was prepd. by the reaction of I (R = NO₂) with allylamine at 10.degree.. The antiemetic activity of I at 0.1-2.0 mg/kg was evaluated in dogs by their capacity to prevent apomorphine-induced vomiting. A correlation equation was derived, which showed a relation between the antiemetic activity of the substituted benzamides and the Verlupa I parameters for substituents at position 4. The distance between the substituent at position 4 and the cation head (N+Et₂) in the aliph. chain was 9.2 .ANG..

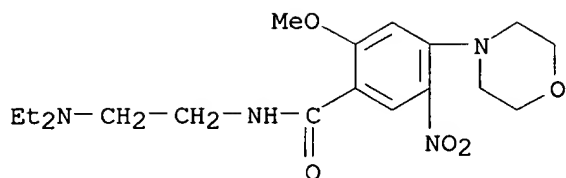
IT 118137-37-4P 118137-48-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and antiemetic activity of, structure in relation to)

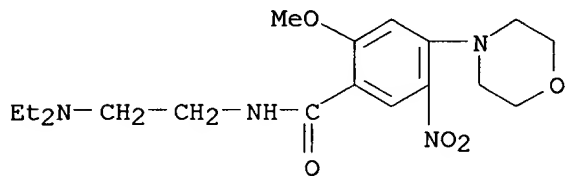
RN 118137-37-4 CAPLUS

CN Benzamide, N-[2-(diethylamino)ethyl]-2-methoxy-4-(4-morpholinyl)-5-nitro-(9CI) (CA INDEX NAME)



RN 118137-48-7 CAPLUS

CN Benzamide, N-[2-(diethylamino)ethyl]-2-methoxy-4-(4-morpholinyl)-5-nitro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L4 ANSWER 19 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1988:494747 CAPLUS

DOCUMENT NUMBER: 109:94747

TITLE: Dibasic spirodipyran color formers

INVENTOR(S): Eichinger, Karl; Hartmann, Friedrich

PATENT ASSIGNEE(S): Koreska Licensing G.m.b.H., Austria

SOURCE: Austrian, 8 pp.

CODEN: AUXXAK

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AT 385272	B	19880310	AT 1986-865	19860402
AT 8600865	A	19870815		

OTHER SOURCE(S): MARPAT 109:94747

GI For diagram(s), see printed CA Issue.

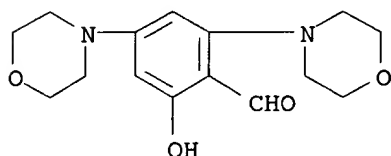
AB The title compds. I (A is an arom. system; R1, R2 = H, aryl, alkyl, or jointly form an aliph. carbocyclic ring; R3, R4 = alkyl or NR3R4 = pyrrolidino, piperidino, morpholino, thiomorpholino, or N'-substituted piperazinyl), useful as color formers in carbonless copying paper and heat- and pressure-sensitive recording materials, are prepd. by the reaction of pyrylium salts with basically substituted salicylaldehydes in lower aliph. alcs. or ketones at the solvent boiling temp. 3,5-Dimorpholinophenol was subjected to the Vilsmeier reaction with POCl3 and DMF, the obtained dimorpholinosalicylaldehyde reacted with 2,3-dimethylbenzo[b]pyrylium trichlorozincate in MeOH for 3 h under reflux, forming II, a bright yellow crystal powder, which developed a blue-violet color when contacted with acidic materials.

IT **115948-77-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and reaction of, with dimethylbenzopyrylium trichlorozincate)

RN 115948-77-1 CAPLUS

CN Benzaldehyde, 2-hydroxy-4,6-di-4-morpholinyl- (9CI) (CA INDEX NAME)



L4 ANSWER 20 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1986:88194 CAPLUS

DOCUMENT NUMBER: 104:88194

TITLE: Chemistry of 4-trimethylsilyl-3-dialkylaminocrotonate
esters and the cycloaromatization reactions with
enamines

AUTHOR(S): Kang, G. J.; Chan, T. H.

CORPORATE SOURCE: Dép. Chem., McGill Univ., Montreal, QC, H3A 2K6, Can.

SOURCE: Canadian Journal of Chemistry (1985), 63(11), 3102-10
CODEN: CJCHAG; ISSN: 0008-4042

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 104:88194

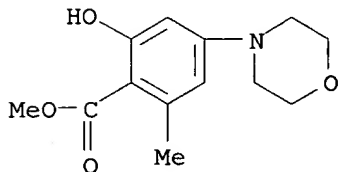
AB Me 4-trimethylsilyl-3-dialkylaminocrotonate is synthesized by the
silylation of Me 3-dialkylaminocrotonate. It reacts with carbonyl
electrophiles at its .gamma.-position. The unusual regiochem. of this
reaction is studied and rationalized. It reacts with enamines derived
from acyclic ketones to give arom. compds. in a 3C + 3C combination and
with enamines derived from cycloketones of 5- to 8-membered rings to give
arom. compds. in a 4C + 2C combination. A mechanism for this
cycloaromatization reaction is proposed.

IT **87565-78-4P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. and decarboxylation of)

RN 87565-78-4 CAPLUS

CN Benzoic acid, 2-hydroxy-6-methyl-4-(4-morpholinyl)-, methyl ester (9CI)
(CA INDEX NAME)

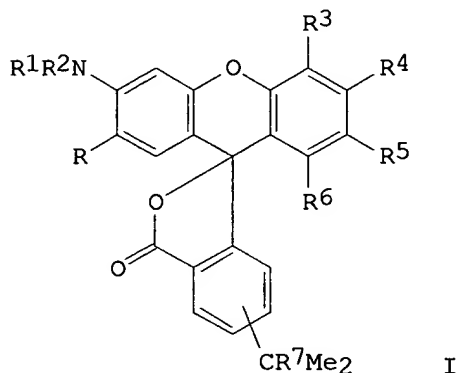


L4 ANSWER 21 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:525013 CAPLUS
 DOCUMENT NUMBER: 103:125013
 TITLE: Fluoran color formers
 INVENTOR(S): Mayer, Udo; Oberlinner, Andreas
 PATENT ASSIGNEE(S): BASF A.-G. , Fed. Rep. Ger.
 SOURCE: Ger. Offen., 27 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3337387	A1	19850425	DE 1983-3337387	19831014
EP 138177	A2	19850424	EP 1984-112011	19841006
EP 138177	A3	19850605		
EP 138177	B1	19880107		
R: CH, DE, FR, GB, IT, LI				
JP 60101152	A2	19850605	JP 1984-212744	19841012
US 4603202	A	19860729	US 1984-660128	19841012
PRIORITY APPLN. INFO.:			DE 1983-3337387	19831014

GI



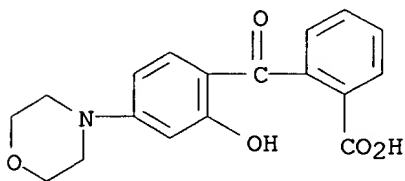
AB Fluoran color formers with good soly. in microencapsulation solvents and reduced migration in support materials are represented by general structure I, where R = H or Me; R1 = H or (un)substituted alkyl; R2 = H, (un)substituted alkyl, cycloalkyl, or (un)substituted Ph, or R1R2N = 5- or 6-membered heterocycle; R3 and R4 = H, alkyl, alkoxy, or halogen; R5 = H, halogen, alkyl, etc.; R6 = H, alkyl, or halogen; and R7 = C1-5 alkyl. I are useful in heat- or pressure-sensitive recording systems and produce yellow, orange, red, blue, olive, or black colors when in contact with electron acceptors. Thus, treatment of 4-tert-butyl-2-(2-hydroxy-5-methylbenzoyl)benzoic acid [98233-18-2] in CHCl3 with POCl3 at room temp. and then with 3-(ethylamino)-4-methylphenol [120-37-6] at reflux gave 5'-(6')-tert-butyl-3-(ethylamino)-2,7-dimethylfluoran [98181-33-0], which produced deep orange copies when microencapsulated and used in copying paper. Numerous other I were similarly prepd.

IT **98181-30-7**
 RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclocondensation reaction of, with naphthol)

RN 98181-30-7 CAPLUS

CN Benzoic acid, 4(or 5)-(1,1-dimethylethyl)-2-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



D1-Bu-t

L4 ANSWER 22 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:453416 CAPLUS

DOCUMENT NUMBER: 103:53416

TITLE: Effect of different dialkylamino groups on the regioselectivity of lithiation of O-protected 3-(dialkylamino)phenols

AUTHOR(S): Skowronska-Ptasinska, Maria; Verboom, Willem; Reinhoudt, David N.

CORPORATE SOURCE: Lab. Org. Chem., Twente Univ. Technol., Enschede, 7500 AE, Neth.

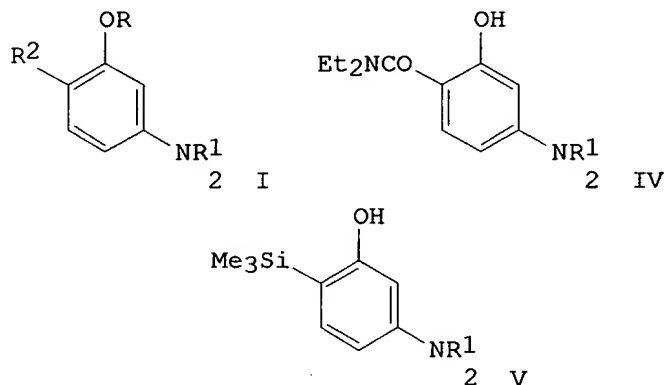
SOURCE: Journal of Organic Chemistry (1985), 50(15), 2690-8
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 103:53416

GI



AB The lithiation regiochem. of the title compds. (I; R = Me, MeOCH₂, CONEt₂; R₂ = H, Me, CHO, Me₃Si; R₁ = Me; R₁₂ N = pyrrolidino, piperidino, morpholino) depends on the relative ortho-directing capacities of both R

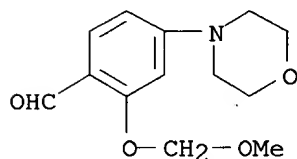
and NR12. With the moderate ortho-directing MeO group lithiation occurs exclusively [with I (R2 = H, R = Me, R12N = piperidino, morpholino)] or predominantly [with I (R2 = H, R = Me, R12N = pyrrolidino)] ortho to both substituents. The site of lithiation of I (R2 = H, R = CH2OMe, R12N = pyrrolidino, piperidino, morpholino) depends on both the solvent and R12N. For I [R2 = H, R = CONEt2, R1 = Me (II); R2 = H, R = CONEt2, R12N = pyrrolidino (III), piperidino], which contains the strong ortho-directing carbamoyloxy group, lithiation occurs at the least hindered ortho position. In the absence of an electrophile (e.g., DMF), the lithiated derivs. of carbamates II, III, and I (R2 = Me3Si, R = CONEt2, R12N = pyrrolidino; R2 = Me3Si, R = CONEt2, R1 = Me) rearrange stereospecifically to the corresponding benzamides IV (R1 = Me; NR12 = pyrrolidino) and V (R1 = Me; NR12 = pyrrolidino), resp.

IT **96649-12-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 96649-12-6 CAPLUS

CN Benzaldehyde, 2-(methoxymethoxy)-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 23 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1983:575385 CAPLUS

DOCUMENT NUMBER: 99:175385

TITLE: Aminophenol acetic acid

INVENTOR(S): Wenk, Paul; Breitenstein, Werner; Baumann, Marcus

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Brit. UK Pat. Appl., 45 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

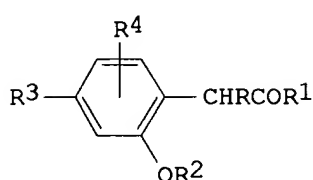
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

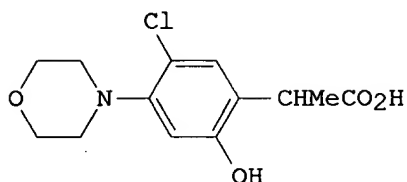
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2109373	A1	19830602	GB 1982-30352	19821025
GB 2109373	B2	19860115		
EP 82109	A2	19830622	EP 1982-810440	19821022
EP 82109	A3	19850417		
R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
FI 8203641	A	19830429	FI 1982-3641	19821025
ES 516843	A1	19850516	ES 1982-516843	19821026
DK 8204760	A	19830429	DK 1982-4760	19821027
NO 8203586	A	19830429	NO 1982-3586	19821027
AU 8289824	A1	19830505	AU 1982-89824	19821027
ZA 8207845	A	19830629	ZA 1982-7845	19821027
HU 30695	O	19840328	HU 1982-3449	19821027
JP 58150544	A2	19830907	JP 1982-191738	19821028

DD 208798	A5	19840411	DD 1982-244347	19821028
ES 529377	A1	19851101	ES 1984-529377	19840201
ES 529378	A1	19851101	ES 1984-529378	19840201
ES 529379	A1	19851101	ES 1984-529379	19840201
ES 529380	A1	19851201	ES 1984-529380	19840201
ES 529376	A1	19860601	ES 1984-529376	19840201
ES 537285	A1	19850816	ES 1984-537285	19841031
PRIORITY APPLN. INFO.:			CH 1981-6883	19811028
GI				



I



III

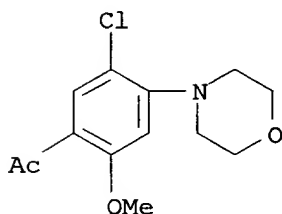
AB Phenylacetic acids I (R = H1, aliph.; R1 = OH, esterified OH, amino; R2 = H, acyl; R3 = amino; R4 = H, substituent) were prepd. as inflammation inhibitors, analgesics, and sunscreens (no data). Thus, treating imidazo[1,2-a]pyridin-2(3H)-one-HCl with maleic acid gave its 3-(1,2-diacarboxyethyl) deriv. which was treated with MeCOCH:CH2 and hydrolyzed to give 4-methyl-3-(3-oxobutyl)maleic anhydride (II). II was treated with morpholinium benzoate to give 3-methyl-6-morpholinobenzofuran-2(3H)-one which was converted to its 5-chloro deriv. and hydrolyzed to III.

IT **87203-06-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and hydrolysis of)

RN 87203-06-3 CAPLUS

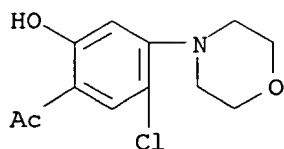
CN Ethanone, 1-[5-chloro-2-methoxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

IT **87203-04-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and methylation of)

RN 87203-04-1 CAPLUS

CN Ethanone, 1-[5-chloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

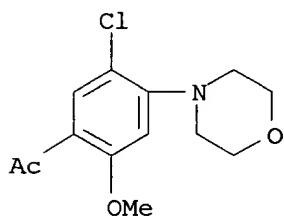
IT **87203-06-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, with sulfur and morpholine)

RN 87203-06-3 CAPLUS

CN Ethanone, 1-[5-chloro-2-methoxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 24 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1983:575286 CAPLUS

DOCUMENT NUMBER: 99:175286

TITLE: Cycloaromatization reaction of enamines

AUTHOR(S): Chan, T. H.; Kang, G. J.

CORPORATE SOURCE: Dep. Chem., McGill Univ., Montreal, QC, H3A 2K6, Can.

SOURCE: Tetrahedron Letters (1983), 24(30), 3051-4

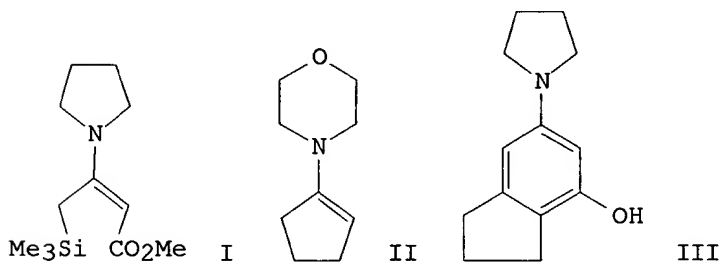
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 99:175286

GI



AB Condensation of enamines with 4-(trimethylsilyl)-3-(dialkylamino)crotonate esters under acid catalyzed conditions gives arom. compds. according to a

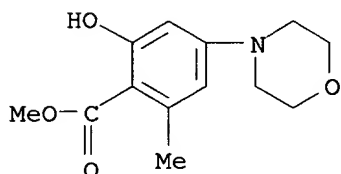
3C+3C or a 4C+2C manner depending on the structure of the enamine. Thus, the aminocrotonate I reacted with the enamine II to give the phenol deriv. III in 64% yield.

IT **87565-78-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 87565-78-4 CAPLUS

CN Benzoic acid, 2-hydroxy-6-methyl-4-(4-morpholinyl)-, methyl ester (9CI)
(CA INDEX NAME)



L4 ANSWER 25 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1983:539751 CAPLUS

DOCUMENT NUMBER: 99:139751

TITLE: Furans

INVENTOR(S): Wenk, Paul; Breitenstein, Werner; Baumann, Marcus

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 103 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

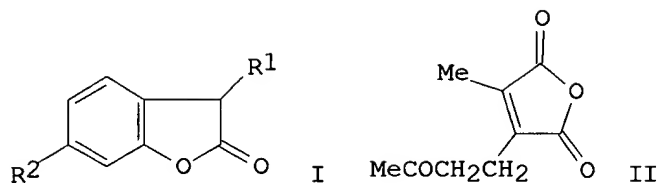
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 78241	A2	19830504	EP 1982-810439	19821022
EP 78241	A3	19840328		
R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
US 4426380	A	19840117	US 1982-435595	19821021
FI 8203640	A	19830429	FI 1982-3640	19821025
GB 2110210	A1	19830615	GB 1982-30351	19821025
GB 2110210	B2	19850703		
ES 516842	A1	19840116	ES 1982-516842	19821026
CA 1199635	A1	19860121	CA 1982-414197	19821026
DK 8204759	A	19830429	DK 1982-4759	19821027
NO 8203585	A	19830429	NO 1982-3585	19821027
AU 8289823	A1	19830505	AU 1982-89823	19821027
ZA 8207844	A	19830629	ZA 1982-7844	19821027
DD 204699	A5	19831207	DD 1982-244314	19821027
HU 29609	O	19840228	HU 1982-3447	19821027
JP 58126882	A2	19830728	JP 1982-191737	19821028
US 4451462	A	19840529	US 1983-542334	19831017
ES 526890	A1	19851001	ES 1983-526890	19831028
ES 526892	A1	19851001	ES 1983-526892	19831028
ES 526891	A1	19860201	ES 1983-526891	19831028
PRIORITY APPLN. INFO.:			CH 1981-6882	19811028
			US 1982-435595	19821021

GI



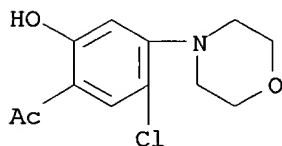
AB Benzofuranones I (R₁ = H, aliph. group; R₂ = amino disubstituted with hydrocarbonyl; benzo ring may be addnl. substituted) and their salts and(or) isomers, useful as inflammation inhibitors, analgesics, and sunscreens for skin (no data), were prepd. Imidazo[1,2-a]pyridin-2(3H)-one hydrochloride in aq. NaOH added to maleic acid to give 3-(1,2-dicarboxyethyl)imidazo[1,2-a]pyridin-2-(3H)-one. The HCl salt of this added to MeCOCH:CH₂ and the product was decarboxylated and hydrolyzed to give maleic anhydride II. This reacted with morpholinium benzoate in refluxing C₆H₆ in 48 h with H₂O sepn. to give I (R₁ = Me, R₂ = morpholino).

IT **87203-04-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and etherification of)

RN 87203-04-1 CAPLUS

CN Ethanone, 1-[5-chloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

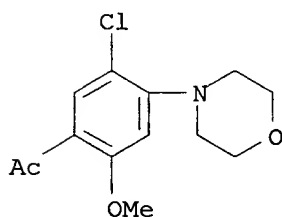


IT **87203-06-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and thioamidation or redn. of)

RN 87203-06-3 CAPLUS

CN Ethanone, 1-[5-chloro-2-methoxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

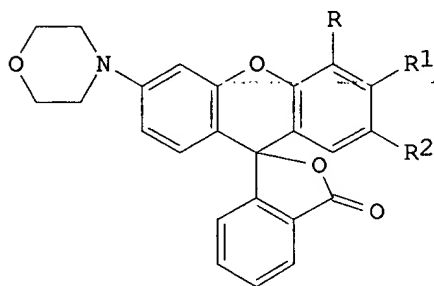


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L4 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1983:73839 CAPLUS
 DOCUMENT NUMBER: 98:73839
 TITLE: Chromogenic fluoran compounds
 INVENTOR(S): Dixon, Leonard Fox
 PATENT ASSIGNEE(S): Holliday Dyes and Chemicals Ltd., UK
 SOURCE: Brit. UK Pat. Appl., 6 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2097013	A	19821027	GB 1982-10955	19820415
PRIORITY APPLN. INFO.: GI			GB 1981-12191	19810416



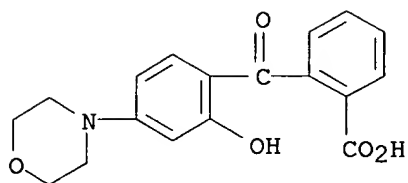
AB Chromogenic fluorans (I) for pressure-sensitive record materials are prepd., where R = H or lower alkyl; R1 and R2 independently represent H, alkyl, cycloalkyl, aralkyl, aryl, OH, alkoxy, cycloalkoxy, aralkoxy, or aryloxy; R1 or R2 can be an optionally substituted amino group; and RR1 or R1R2 represents a fused ring. In contact with acidic materials I give red, orange, green, purple, and black colors. Thus, reaction of 2'-hydroxy-4'-morpholinobenzophenone-2-carboxylic acid [55165-07-6] with 4-(acetylamino)phenol [103-90-2] in H2SO4 at 50.degree. followed by deacetylation gave almost colorless cryst. I (R = R1 = H, R2 = NH2) (II) [84428-98-8] (after recrystn. from toluene). A toluene soln. of II gave a purple black color to acid clay-coated paper. Ten other I were similarly prepd.

IT 55165-07-6

RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation reaction of, with aminophenols)

RN 55165-07-6 CAPLUS

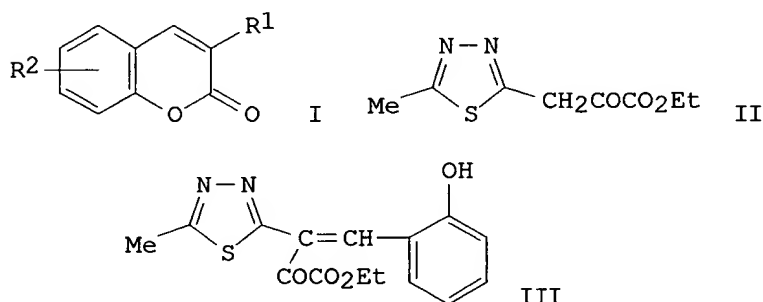
CN Benzoic acid, 2-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 27 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1981:587261 CAPLUS
 DOCUMENT NUMBER: 95:187261
 TITLE: Coumarin compounds
 INVENTOR(S): Hagen, Helmut; Kohler, Rolf Dieter
 PATENT ASSIGNEE(S): BASF A.-G. , Fed. Rep. Ger.
 SOURCE: Ger. Offen., 17 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 295029I	A1	19810619	DE 1979-2950291	19791214
EP 30703	A1	19810624	EP 1980-107746	19801209
EP 30703	B1	19840321		
R: BE, CH, DE, FR, GB, NL				
PRIORITY APPLN. INFO.:			DE 1979-2950291	19791214
GI				

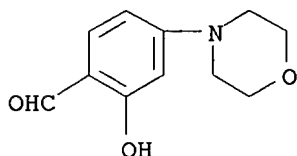


AB Coumarins I (R1 = heterocyclyl, R2 = H, aliph., cyclo-, araliph., arom., OR3, NR32, NO2, halo, R3 independently = aliph., cyclo-8 araliph., arom., NR32 = heterocyclyl) were prepd. by a simpler and more economical method than previously and in better yield and purity. I was fluorescent dyes and optical brighteners (no data) and intermediates for dyes, pesticides, and pharmaceuticals. Stirring a mixt. of pyruvate II, 2-HOC6H4CHO, and ZnCl2 2 h at 100.degree. gave 60% condensation product III which was cyclized with NaOMe in Me glycol in 1 h at 130.degree. to give 85% coumarin I (R1 = 5-methyl-1,3,4-thiadiazol-2-yl, R2 = H).

IT 70362-07-1

RL: RCT (Reactant); RACT (Reactant or reagent)

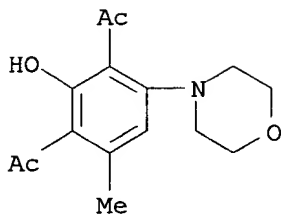
(cyclization of, with thiadiazolylpyruvate ester enolate)
 RN 70362-07-1 CAPLUS
 CN Benzaldehyde, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 28 OF 37 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:568872 CAPLUS
 DOCUMENT NUMBER: 95:168872
 TITLE: Benzene derivatives from 4-pyrones: the reaction of 3,5-diacetyl- and 3,5-bisethoxycarbonyl-4-pyrones with secondary amines
 AUTHOR(S): Eiden, Fritz; Teupe, Ernst Guenther; Leister, Hans Peter
 CORPORATE SOURCE: Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, 8000/2, Fed. Rep. Ger.
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1981), 314(4), 347-55
 CODEN: ARPMAS; ISSN: 0365-6233
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI

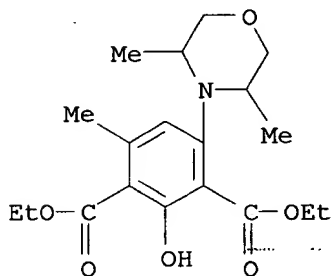
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The reactions of title pyrones I (R = EtO, Me) with cyclic R12NH (e.g., piperidine, morpholine) gave phenols II and, in the case of I (R = Me) with piperazine, bisphenol III. II (R = Me, NR12 = piperidino) and III reacted with Me2NCH(OCHMe2)2 to give IV and V. The reaction of IV with hydrazines gave pyrazoles VI (R2 = Ph, Me). Hydrolysis of II (R = Me, NR12 = 4-cyano-4-phenylpiperidino) gave VII (R3 = CONH2, CO2Et).
 IT **77600-95-4P 79512-30-4P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 77600-95-4 CAPLUS
 CN Ethanone, 1,1'-[2-hydroxy-4-methyl-6-(4-morpholinyl)-1,3-phenylene]bis- (9CI) (CA INDEX NAME)



RN 79512-30-4 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 4-(3,5-dimethyl-4-morpholinyl)-2-hydroxy-6-methyl-, diethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1981:191938 CAPLUS

DOCUMENT NUMBER: 94:191938

TITLE: 2-Hydroxy-4-methylbenzene compounds

INVENTOR(S): Eiden, Fritz; Teupe, Ernst Guenther; Leister, Hans
Peter; Mayer, Dieter

PATENT ASSIGNEE(S): Thiemann, Dr., G.m.b.H. Chem.-Pharm. Fabrik, Fed. Rep.
Ger.

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

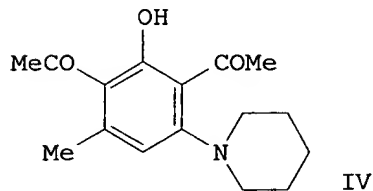
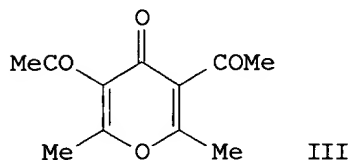
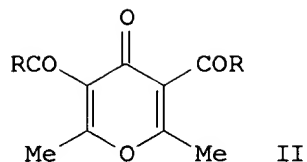
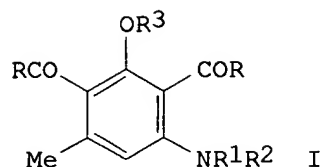
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2922488	A1	19801211	DE 1979-2922488	19790601

GI



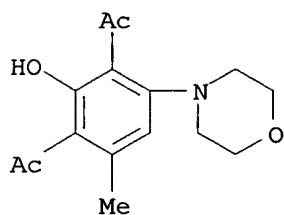
AB I [R = Me or C1-4 alkoxy; R¹ and R² were C1-4 alkyl or (R¹R²N =) heterocyclyl; R³ = H, Me, or Et] were prepd. by reaction of II with secondary amines. Thus 2 g III and 950 mg piperidine were heated 1.5 h at 100.degree. to give 84% IV.

IT **77600-95-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 77600-95-4 CAPLUS

CN Ethanone, 1,1'-[2-hydroxy-4-methyl-6-(4-morpholinyl)-1,3-phenylene]bis-
(9CI) (CA INDEX NAME)



L4 ANSWER 30 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1980:595485 CAPLUS

DOCUMENT NUMBER: 93:195485

TITLE: Pressure-sensitive copying paper

INVENTOR(S): Miyazawa, Yoshiei; Motohashi, Katsuichi; Harada, Etsuo; Kato, Hajime

PATENT ASSIGNEE(S): Hodogaya Chemical Co., Ltd., Japan; Fuji Photo Film Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 55044830 A2 19800329 JP 1978-117983 19780927

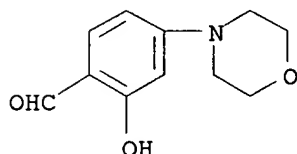
GI For diagram(s), see printed CA Issue.

AB Pressure-sensitive copying materials contain a 7-substituted spiropyran deriv. I (R = H, lower alkyl, Ph; A = benzene or naphthalene ring; R1 = pyrrolidinyl, piperidino, morpholino; R may form 5- or 6-membered ring by bonding with the C atom at 3-position) as the dye precursor. Thus, II was microencapsulated by using a conventional method and the resultant microcapsule dispersion was coated on a paper support to give a pressure-sensitive sheet which gave high-optical-d. images having good light fastness when it is used with an acidic clay type color developer sheet.

IT **70362-07-1**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with dimethylnaphthopyrylium chloride ferric chloride)

RN 70362-07-1 CAPLUS

CN Benzaldehyde, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 31 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1979:213274 CAPLUS

DOCUMENT NUMBER: 90:213274

TITLE: Leuco dyes for pressure-sensitive copying paper

INVENTOR(S): Baumann, Hans; Oberlinner, Andreas

PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 22 pp.
 CODEN: GWXXBX

DOCUMENT TYPE: Patent

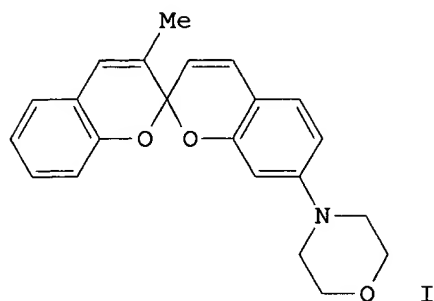
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2737207	A1	19790301	DE 1977-2737207	19770818
US 4161589	A	19790717	US 1978-932015	19780808
EP 900	A1	19790307	EP 1978-100629	19780809
EP 900	B1	19810114		
R: CH, DE, FR, GB				
JP 54041880	A2	19790403	JP 1978-100125	19780818
PRIORITY APPLN. INFO.:			DE 1977-2737207	19770818

GI



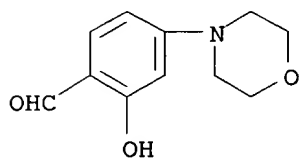
AB Spirodipyrans with a fused-on Ph or 2,1-naphthalene ring and N-morpholino (or N-isindoliny) as substituent, microencapsulated as practically colorless oily soln., and coated on paper yield red-violet to blue copies in contact with electron acceptors but are less liable to develop color in non-acid areas than precursors contg. a -NEt₂ group in place of the morpholine. Thus, refluxing 2,3-dimethylbenzopyrylium trichlorozincate 165 parts with 4-N-morpholinosalicylaldehyde 105 parts in MeOH 900 parts resulted in a cryst. dye which was decolorized by stirring in a mixt. of 25% aq. NH₄OH 500 and PhMe 1000 parts. From the PhMe phase 3'-methyl-7-N-morpholino-2,2'-spirodi(2H-1-benzopyran) (I) 130 parts was recovered.

IT **70362-07-1**

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dimethylbenzopyryliumtrichlorozincate and related compds.)

RN 70362-07-1 CAPLUS

CN Benzaldehyde, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 32 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1978:22305 CAPLUS

DOCUMENT NUMBER: 88:22305

TITLE: Amide-acid chloride adducts. Part IX. The reaction of .beta.-N,N-dialkylammocrotonates with phosphorus oxychloride

AUTHOR(S): Harris, Roger L. N.; Huppatz, John L.; Phillips, John N.

CORPORATE SOURCE: Div. Plant Ind., CSIRO, Canberra City, Australia
SOURCE: Australian Journal of Chemistry (1977), 30(10), 2213-23

CODEN: AJCHAS; ISSN: 0004-9425

DOCUMENT TYPE: Journal

LANGUAGE: English

AB .beta.-(Dialkylamino)crotonates underwent autocondensation in excess phosphorus oxychloride at room temp. to give N,N-dialkylanthranilates in

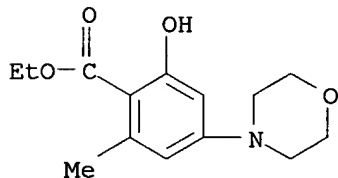
high yield. When stoichiometric amts. of phosphorus oxychloride were used in benzene at 80.degree., significant amts. of phenolic by-products were also formed, which, in the case of .beta.-morpholinocrotonates, become the major products.

IT **65219-95-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 65219-95-6 CAPLUS

CN Benzoic acid, 2-hydroxy-6-methyl-4-(4-morpholinyl)-, ethyl ester (9CI)
(CA INDEX NAME)



L4 ANSWER 33 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1976:91647 CAPLUS

DOCUMENT NUMBER: 84:91647

TITLE: Fluoran derivatives

INVENTOR(S): Yahagi, Masakichi; Toyama, Takafumi; Izaki, Tetsuo;
Suzuki, Teruo

PATENT ASSIGNEE(S): Nisso Kako Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp. Division of Japan.
Kokai 75 09,430.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50082127	A2	19750703	JP 1974-95363	19740820
JP 55049086	B4	19801210		

GI For diagram(s), see printed CA Issue.

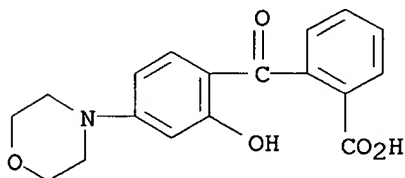
AB Fluoran derivs. I (R = pyrrolidino, piperidino, or morpholino; R1-R4 include at least 1 amino substituent) are prepd. by reaction of 2,4-HORC6H3COC6H4CO2H-2 (II) with an aminophenol or aminonaphthol. I are useful as color-formers in inks for pressure- or heat-sensitive copying paper. For example, 8 g II (R = piperidino) [55165-06-5] was treated with 5.4 g 4,2-HOMeC6H3NHPh [17654-13-6] in 62 g concd. H2SO4 at 0-10.degree. for 24 hr, poured into ice water and filtered to give 6.2 g I (R = piperidino, R1 = R4 = H, R2 = Me, R3 = NHPh) [55773-64-3] as pale brown crystals, which turn violet in contact with clay and green in contact with phenolic resins. Four addnl. I were similarly prepd. Also, 9.7 g p-H2NC6H4OH [123-30-8] was added to 23 g II (R = pyrrolidino) [49742-68-9] in 90 g concd. H2SO4 at 100-10.degree. and the product [55772-74-2] was alkylated with PhCH2Cl [100-44-7] in xylene at 120-30.degree. to give 5.0 g white I [R = pyrrolidino, R1 = R2 = R4 = H, R3 = N(CH2Ph)2] [55772-83-3], which turned green in contact with clay or phenolic resin. Similar alkylation gave 4 addnl. I.

IT 55165-07-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with piperidinophenol)

RN 55165-07-6 CAPLUS

CN Benzoic acid, 2-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 34 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1975:499215 CAPLUS

DOCUMENT NUMBER: 83:99215

TITLE: Fluoran compounds and recording material containing them

INVENTOR(S): Hotta, Seiji; Ito, Yukiaki

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Ger. Offen., 90 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2446313	A1	19750515	DE 1974-2446313	19740927
JP 50064016	A2	19750530	JP 1973-112591	19731005
JP 56046997	B4	19811106		
US 4024157	A	19770517	US 1974-510916	19741001
GB 1460210	A	19761231	GB 1974-42900	19741003
FR 2246561	A1	19750502	FR 1974-33567	19741004
CH 613403	A	19790928	CH 1974-13400	19741004
US 4156682	A	19790529	US 1976-734668	19761021
PRIORITY APPLN. INFO.:			JP 1973-112591	19731005
			US 1974-510916	19741001

GI For diagram(s), see printed CA Issue.

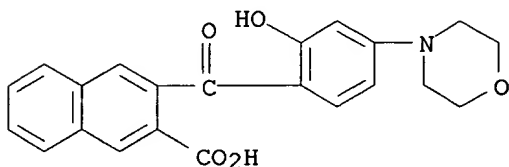
AB Color formers [I, R = H, Br; R1 = Et, Me; R2 = Et, Ph, cyclohexyl, p-MeC6H4; (R1R2N) = morpholino, piperidino; R3 = H; (R3R4) = benzo; R4 = H, Me; R5 = H, Ph, PhCH2, Me, cyclohexyl, substituted Ph; R6 = H, Ph, PhCH2] were prepd. and used in pressure-sensitive copying paper giving light-fast dark red to black shades in contact with an acid substrate. Thus, a mixt. of 4-HOC6H4NH2 [123-30-8], 2-[4-(diethylamino)-2-hydroxybenzoyl]-3-naphthalenecarboxylic acid [54117-20-3] in H2SO4 was condensed at 20-30.degree. for 10 hr, the reaction mixt. contg. the anilide deriv. poured into ice water, and neutralized with NaOH to give color former I(R = R3 = R4 = R5 = R6 = H, R1 = R2 = Et) [54117-21-4], dark brown in contact with an acid substrate.

IT 56279-07-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with toluidinophenol)

RN 56279-07-3 CAPLUS

CN 2-Naphthalenecarboxylic acid, 3-[2-hydroxy-4-(4-morpholinyl)benzoyl]-
(9CI) (CA INDEX NAME)

L4 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1975:461717 CAPLUS

DOCUMENT NUMBER: 83:61717

TITLE: Fluoran derivatives

INVENTOR(S): Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahuma; Kashiwagi, Akio

PATENT ASSIGNEE(S): Shin Nisso Kako Co., Ltd.

SOURCE: Ger. Offen., 86 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2424935	A1	19741219	DE 1974-2424935	19740522
DE 2424935	C2	19880225		
JP 50009430	A2	19750130	JP 1973-56278	19730522
JP 51038245	B4	19761020		
JP 50042913	A2	19750418	JP 1973-93260	19730822
JP 51038246	B4	19761020		
JP 50120636	A2	19750922	JP 1974-26876	19740308
JP 54026929	B4	19790906		
FR 2230632	A1	19741220	FR 1974-17660	19740521
FR 2230632	B1	19790720		
US 3959571	A	19760525	US 1974-472204	19740521
IT 1011848	A	19770210	IT 1974-68598	19740521
GB 1478596	A	19770706	GB 1974-22914	19740522
US 4410708	A	19831018	US 1976-654732	19760203
US 4677203	A	19870630	US 1983-504272	19830614
PRIORITY APPLN. INFO.:			JP 1973-56278	19730522
			JP 1973-93260	19730822
			JP 1974-26876	19740308
			US 1974-472204	19740521
			US 1976-654732	19760203

GI For diagram(s), see printed CA Issue.

AB Fluoran derivs. contg. piperidino, pyrrolidino, cyclhexylamino, and morpholino residues in the 3-position were prep'd. which were less selfdeveloping than corresponding 3-Et2N derivs. and were used as color formers for heat-and pressure-sensitive copying paper. Thus, a mixt. of 2-(2-hydroxy-4-piperidinobenzoyl)benzoic acid [55165-06-5] and

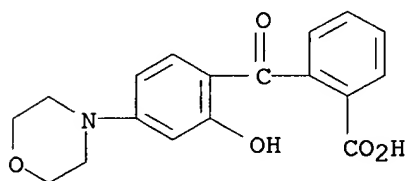
PhNHC6H3(OH)Me-4,2 [17654-13-6] in H₂SO₄ was held at 0-10.degree. for 24 hr to give fluoran deriv. (I) [55773-64-3]. Similarly, 98 other fluoran derivs. were prepd. and their color on acid substrates were given.

IT **55165-07-6**

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with piperidinophenol)

RN 55165-07-6 CAPLUS

CN Benzoic acid, 2-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 36 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1975:155802 CAPLUS

DOCUMENT NUMBER: 82:155802

TITLE: Benzophenone derivatives

INVENTOR(S): Yahagi, Masakichi; Toyama, Takafumi; Igaki, Tetsuo

PATENT ASSIGNEE(S): Nisso Chemical Industries, Ltd.

SOURCE: Japan. Kokai, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49133367	A2	19741221	JP 1973-47349	19730428
JP 52010871	B4	19770326		

GI For diagram(s), see printed CA Issue.

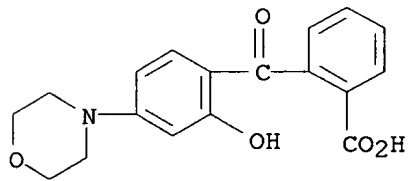
AB Benzophenone derivs. (I; R = piperidino, pyrrolidino, morpholino) were prepd. by reacting m-RC₆H₄OH with phthalic anhydride (II). Thus, a mixt. of 18 g m-pyrrolidinophenol and 15 g II in PhMe was stirred 4 hr at 110.degree. to give 21 g I (R = pyrrolidino).

IT **55165-07-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 55165-07-6 CAPLUS

CN Benzoic acid, 2-[2-hydroxy-4-(4-morpholinyl)benzoyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 37 OF 37 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1972:461917 CAPLUS

DOCUMENT NUMBER: 77:61917

TITLE: Aminobenzenes. VIII. Rearrangement of phenyl carbamates. Syntheses of 2,4-dioxo-3,4-dihydro-2H-1,3-benzoxazines and salicylamides

AUTHOR(S): Effenberger, Franz; Niess, Rolf; Schick, Max

CORPORATE SOURCE: Inst. Org. Chem., Univ. Stuttgart, Stuttgart, Ger.

SOURCE: Chem. Ber. (1972), 105(6), 1926-42

CODEN: CHBEAM

DOCUMENT TYPE: Journal

LANGUAGE: German

GI For diagram(s), see printed CA Issue.

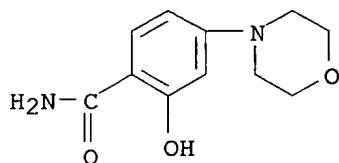
AB Thermal rearrangement of N-aryl-substituted m-RC₆H₄O₂CNHR₁ (I, R = pyrrolidinyl, piperidino, or Me₂N; R₁ = Ph, Bz, or p-ClC₆H₄CO) obtained from m-RC₆H₄OH and R₁NCO gave 4,2-R(HO)C₆H₃-CONHR₁ (II), whereas N-alkoxy-substituted I gave 2,4-dioxo-3,4-dihydro-2H-1,3-benzoxazines (III). III were cleaved by dil. KOH with CO₂ evolution to give II (R₁ = H). The mechanism of this Fries rearrangement-like reaction involving an intramol. path is discussed.

IT 37893-38-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 37893-38-2" CAPLUS"

CN Benzamide, 2-hydroxy-4-(4-morpholinyl)- (9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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303.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

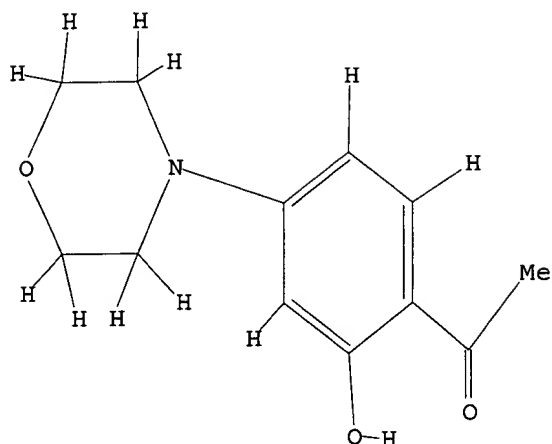
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CA SUBSCRIBER PRICE

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STN INTERNATIONAL LOGOFF AT 13:00:20 ON 16 DEC 2002



Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 367 TO ITERATE
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100.0% PROCESSED      367 ITERATIONS
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1 ANSWERS

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L2          1 SEA SSS FUL L1
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COST IN U.S. DOLLARS
FULL ESTIMATED COST
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SINCE FILE	TOTAL
ENTRY	SESSION
140.28	140.49

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FILE COVERS 1907 - 16 Dec 2002 VOL 137 ISS 25
FILE LAST UPDATED: 15 Dec 2002 (20021215/ED)
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This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please

check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l2

L3 1 L2

=> d ibib abs hitstr tot

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:185097 CAPLUS

DOCUMENT NUMBER: 136:247591

TITLE: Preparation of arylmorpholines as inhibitors of DNA-dependent protein kinase and methods to potentiate cancer treatment

INVENTOR(S): Halbrook, James; Kesicki, Edward; Burgess, Laurence E.; Schlachter, Stephen T.; Eary, Charles T.; Schiro, Justin G.; Huang, Hongmei; Evans, Michael; Han, Yongxin

PATENT ASSIGNEE(S): Icos Corporation, USA

SOURCE: PCT Int. Appl., 247 pp.

CODEN: PIXXD2

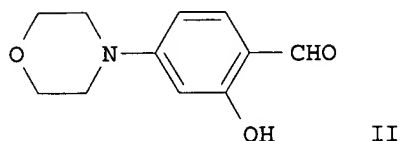
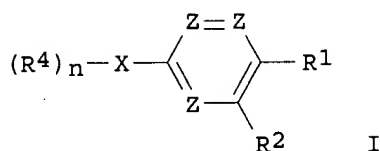
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2001088432	A5	20020322	AU 2001-88432	20010828
US 2002165218	A1	20021107	US 2001-941897	20010828
PRIORITY APPLN. INFO.:			US 2000-229899P	P 20000901
			WO 2001-US26709	W 20010828
OTHER SOURCE(S):	MARPAT 136:247591			
GI				



AB Compds. that inhibit DNA-dependent protein kinase, I [n = 0-4; X = (un)substituted 4-7 membered aliph. ring contg. 0-3 heteroatoms consisting of N, O and S (X = morpholinyl preferred); Z = independently N or CR3; R3 = independently H, halo, CHO, alkoxy, etc.; R1 = H, (un)substituted alkyl, cycloalkyl, CO, NO2, etc.; R2 = H, (un)substituted alkyl, carbamoyl, alkoxy, sulfamyl, etc.; with provision when X = morpholinyl, R2 and R4 and R3 = H at each occurrence, then R1 is different from COMe, phenylalkene, and NO2; and with the provision that when X = morpholinyl, R4 = H and Z = N at each occurrence, then R1 and R2 when taken together is different from triazole], were prepd. and compns. of I with other antineoplastic agents are claimed for use in cancer treatment therapy. Thus, II was prepd. in 23% yield via formylation of 3-(4-morpholinyl)phenol. II demonstrated an IC50 value of 400 nM in DNA-PK assay. Preliminary results of animal tumor model studies indicate II enhanced the tumorigenic effect of total body irradiation (using 100-500 rad gamma-radiation, II delayed tumor growth 1.2 to 1.8-fold relative to animals receiving radiation only).

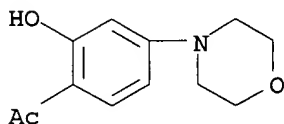
IT 404009-40-1P

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(target compd.; prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

RN 404009-40-1 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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SINCE FILE

TOTAL

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TOTAL

Habte

12/16/2002

09/941,897

Page 6

CA SUBSCRIBER PRICE

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BATCH **COMPLETE**
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PROJECTED ANSWERS: 0 TO 0

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COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST

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FILE COVERS 1907 - 16 Dec 2002 VOL 137 ISS 25
 FILE LAST UPDATED: 15 Dec 2002 (20021215/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

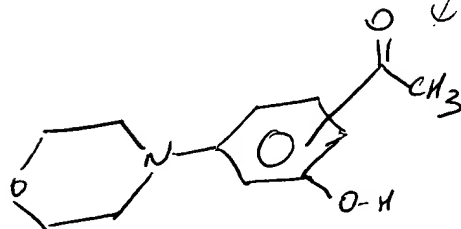
CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s l3

L4 6 L3

=> d ibib abs hitstr tot

0 ANSWERS



L4 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:185097 CAPLUS

DOCUMENT NUMBER: 136:247591

TITLE: Preparation of arylmorpholines as inhibitors of DNA-dependent protein kinase and methods to potentiate cancer treatment

INVENTOR(S): Halbrook, James; Kesicki, Edward; Burgess, Laurence E.; Schlachter, Stephen T.; Eary, Charles T.; Schiro, Justin G.; Huang, Hongmei; Evans, Michael; Han, Yongxin

PATENT ASSIGNEE(S): Icos Corporation, USA

SOURCE: PCT Int. Appl., 247 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

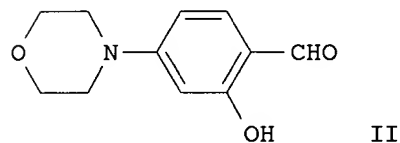
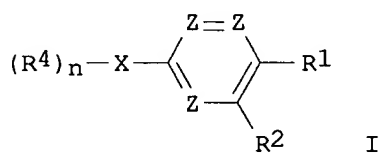
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002020500	A2	20020314	WO 2001-US26709	20010828
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG AU 2001088432 A5 20020322 AU 2001-88432 20010828 US 2002165218 A1 20021107 US 2001-941897 20010828 PRIORITY APPLN. INFO.: US 2000-229899P P 20000901 WO 2001-US26709 W 20010828				

OTHER SOURCE(S): MARPAT 136:247591

GI



AB Compds. that inhibit DNA-dependent protein kinase, I [n = 0-4; X = (un)substituted 4-7 membered aliph. ring contg. 0-3 heteroatoms consisting

of N, O and S (X = morpholinyl preferred); Z = independently N or CR₃; R₃ = independently H, halo, CHO, alkoxy, etc.; R₁ = H, (un)substituted alkyl, cycloalkyl, CO, NO₂, etc.; R₂ = H, (un)substituted alkyl, carbamoyl, alkoxy, sulfamyl, etc.; with provision when X = morpholinyl, R₂ and R₄ and R₃ = H at each occurrence, then R₁ is different from COMe, phenylalkene, and NO₂; and with the provision that when X = morpholinyl, R₄ = H and Z = N at each occurrence, then R₁ and R₂ when taken together is different from triazole], were prepd. and compns. of I with other antineoplastic agents are claimed for use in cancer treatment therapy. Thus, II was prepd. in 23% yield via formylation of 3-(4-morpholinyl)phenol. II demonstrated an IC₅₀ value of 400 nM in DNA-PK assay. Preliminary results of animal tumor model studies indicate II enhanced the tumoristatic effect of total body irradiation (using 100-500 rad .gamma.-radiation, II delayed tumor growth 1.2 to 1.8-fold relative to animals receiving radiation only).

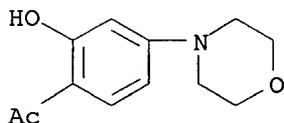
IT **404009-40-1P**

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(target compd.; prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

RN 404009-40-1 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



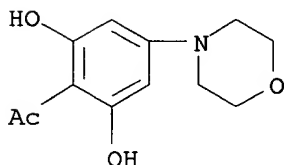
IT **404011-08-1P**

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(target compd.; prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

RN 404011-08-1 CAPLUS

CN Ethanone, 1-[2,6-dihydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



IT **404009-52-5P 404009-54-7P 404009-56-9P**

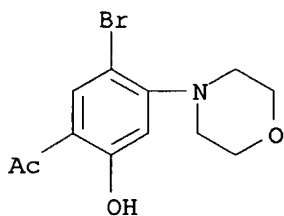
404009-58-1P 404009-60-5P 404009-62-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(target compd.; prepn. of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

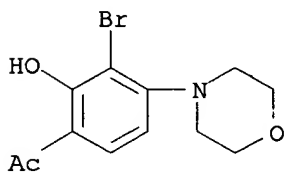
RN 404009-52-5 CAPLUS

CN Ethanone, 1-[5-bromo-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



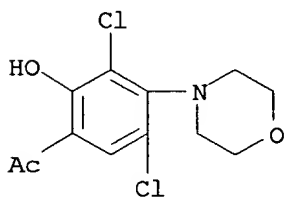
RN 404009-54-7 CAPLUS

CN Ethanone, 1-[3-bromo-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



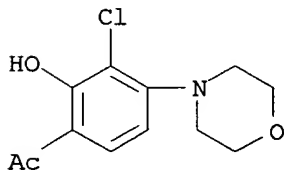
RN 404009-56-9 CAPLUS

CN Ethanone, 1-[3,5-dichloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 404009-58-1 CAPLUS

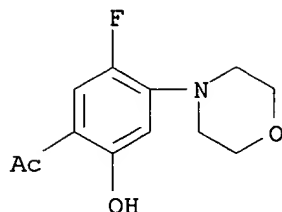
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RN 404009-60-5 CAPLUS

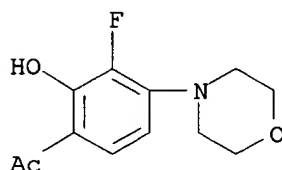
CN Ethanone, 1-[5-fluoro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

NAME)



RN 404009-62-7 CAPLUS

CN Ethanone, 1-[3-fluoro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:422242 CAPLUS

DOCUMENT NUMBER: 103:22242

TITLE: Pyran derivatives. 107. Preparation and reactions of 2-acetyl-3-amino-5-hydroxy-2-cyclohexenones; benzene derivatives from pyrones

AUTHOR(S): Eiden, Fritz; Patzelt, Gertrud

CORPORATE SOURCE: Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, 8000/2, Fed. Rep. Ger.

SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1985), 318(4), 328-40

CODEN: ARPMAS; ISSN: 0365-6233

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 103:22242

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Acetylpyrene I reacted with HNR22 [NR22 = NMe2, NEt2, NMeCH2CH2Ph, piperidino, morpholino, perhydroazepine, 4-(2-pyridyl)-1-piperazinyl, 4-methyl-1-piperazinyl, 4-[3-(trifluoromethyl)phenyl]-1-piperazinyl, 1-piperazinyl] gave aminocyclohexenones II and III and aminophenols IV. NH3 and 1,2-C6H4(NH2)2 gave pyridinones V (R = H, 2-H2NC6H4) or VI. The amine group in II (R2 = Me) (VII) was replaced by reaction with NH3, amines, amino acids, and hydrazine derivs. VII cyclized with PhC(:NH)NH2 or H2NNHR1 (R1 = Ph, Me) to give quinazoline VIII or indazoles IX.

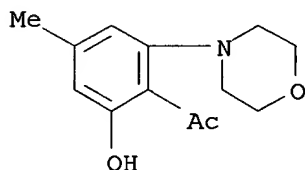
Treating II, III, the transamination analogs of VII, VIII, or IX with KOH in EtOH gave the corresponding phenol dehydration products.

IT **97066-10-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 97066-10-9 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-methyl-6-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1983:575385 CAPLUS

DOCUMENT NUMBER: 99:175385

TITLE: Aminophenol acetic acid

INVENTOR(S): Wenk, Paul; Breitenstein, Werner; Baumann, Marcus

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Brit. UK Pat. Appl., 45 pp.

CODEN: BAXXDU

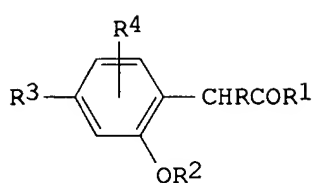
DOCUMENT TYPE: Patent

LANGUAGE: English

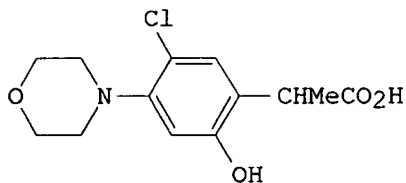
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

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GB 2109373	B2	19860115		
EP 82109	A2	19830622	EP 1982-810440	19821022
EP 82109	A3	19850417		
R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
FI 8203641	A	19830429	FI 1982-3641	19821025
ES 516843	A1	19850516	ES 1982-516843	19821026
DK 8204760	A	19830429	DK 1982-4760	19821027
NO 8203586	A	19830429	NO 1982-3586	19821027
AU 8289824	A1	19830505	AU 1982-89824	19821027
ZA 8207845	A	19830629	ZA 1982-7845	19821027
HU 30695	O	19840328	HU 1982-3449	19821027
JP 58150544	A2	19830907	JP 1982-191738	19821028
DD 208798	A5	19840411	DD 1982-244347	19821028
ES 529377	A1	19851101	ES 1984-529377	19840201
ES 529378	A1	19851101	ES 1984-529378	19840201
ES 529379	A1	19851101	ES 1984-529379	19840201
ES 529380	A1	19851201	ES 1984-529380	19840201
ES 529376	A1	19860601	ES 1984-529376	19840201
ES 537285	A1	19850816	ES 1984-537285	19841031
PRIORITY APPLN. INFO.:			CH 1981-6883	19811028
GI				



I



III

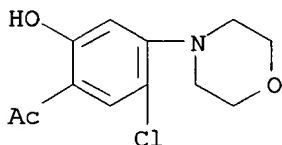
AB Phenylacetic acids I (R = H₁, aliph.; R₁ = OH, esterified OH, amino; R₂ = H, acyl; R₃ = amino; R₄ = H, substituent) were prepd. as inflammation inhibitors, analgesics, and sunscreens (no data). Thus, treating imidazo[1,2-a]pyridin-2(3H)-one-HCl with maleic acid gave its 3-(1,2-diacarboxyethyl) deriv. which was treated with MeCOCH:CH₂ and hydrolyzed to give 4-methyl-3-(3-oxobutyl)maleic anhydride (II). II was treated with morpholinium benzoate to give 3-methyl-6-morpholinobenzofuran-2(3H)-one which was converted to its 5-chloro deriv. and hydrolyzed to III.

IT **87203-04-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and methylation of)

RN 87203-04-1 CAPLUS

CN Ethanone, 1-[5-chloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1983:539751 CAPLUS

DOCUMENT NUMBER: 99:139751

TITLE: Furans

INVENTOR(S): Wenk, Paul; Breitenstein, Werner; Baumann, Marcus

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 103 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

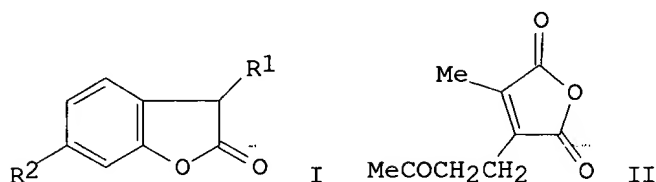
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 78241	A2	19830504	EP 1982-810439	19821022
EP 78241	A3	19840328		
R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
US 4426380	A	19840117	US 1982-435595	19821021
FI 8203640	A	19830429	FI 1982-3640	19821025
GB 2110210	A1	19830615	GB 1982-30351	19821025

GB 2110210	B2	19850703		
ES 516842	A1	19840116	ES 1982-516842	19821026
CA 1199635	A1	19860121	CA 1982-414197	19821026
DK 8204759	A	19830429	DK 1982-4759	19821027
NO 8203585	A	19830429	NO 1982-3585	19821027
AU 8289823	A1	19830505	AU 1982-89823	19821027
ZA 8207844	A	19830629	ZA 1982-7844	19821027
DD 204699	A5	19831207	DD 1982-244314	19821027
HU 29609	O	19840228	HU 1982-3447	19821027
JP 58126882	A2	19830728	JP 1982-191737	19821028
US 4451462	A	19840529	US 1983-542334	19831017
ES 526890	A1	19851001	ES 1983-526890	19831028
ES 526892	A1	19851001	ES 1983-526892	19831028
ES 526891	A1	19860201	ES 1983-526891	19831028
PRIORITY APPLN. INFO.:			CH 1981-6882	19811028
GI			US 1982-435595	19821021

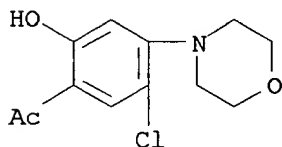


AB Benzofuranones I (R₁ = H, aliph. group; R₂ = amino disubstituted with hydrocarbonyl; benzo ring may be addnl. substituted) and their salts and(or) isomers, useful as inflammation inhibitors, analgesics, and sunscreens for skin (no data), were prepd. Imidazo[1,2-a]pyridin-2(3H)-one hydrochloride in aq. NaOH added to maleic acid to give 3-(1,2-dicarboxyethyl)imidazo[1,2-a]pyridin-2-(3H)-one. The HCl salt of this added to MeCOCH:CH₂ and the product was decarboxylated and hydrolyzed to give maleic anhydride II. This reacted with morpholinium benzoate in refluxing C₆H₆ in 48 h with H₂O sepn. to give I (R₁ = Me, R₂ = morpholino).

IT **87203-04-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and etherification of)

RN 87203-04-1 CAPLUS

CN Ethanone, 1-[5-chloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1981:568872 CAPLUS

DOCUMENT NUMBER: 95:168872
TITLE: Benzene derivatives from 4-pyrones: the reaction of
3,5-diacetyl- and 3,5-bisethoxycarbonyl-4-pyrones with
secondary amines
AUTHOR(S): Eiden, Fritz; Teupe, Ernst Guenther; Leister, Hans
Peter
CORPORATE SOURCE: Inst. Pharm. Lebensmittelchem., Univ. Muenchen,
Munich, 8000/2, Fed. Rep. Ger.
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1981),
314(4), 347-55
CODEN: ARPMAS; ISSN: 0365-6233
DOCUMENT TYPE: Journal
LANGUAGE: German
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

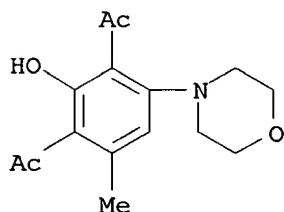
AB The reactions of title pyrones I (R = EtO, Me) with cyclic R₁2NH (e.g., piperidine, morpholine) gave phenols II and, in the case of I (R = Me) with piperazine, bisphenol III. II (R = Me, NR₁2 = piperidino) and III reacted with Me₂NCH(OCHMe₂)₂ to give IV and V. The reaction of IV with hydrazines gave pyrazoles VI (R₂' = Ph, Me). Hydrolysis of II (R = Me, NR₁2 = 4-cyano-4-phenylpiperidino) gave VII (R₃ = CONH₂, CO₂Et).

IT 77600-95-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 77600-95-4 CAPLUS

CN Ethanone, 1,1'-[2-hydroxy-4-methyl-6-(4-morpholinyl)-1,3-phenylene]bis-
(9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1981:191938 CAPLUS

DOCUMENT NUMBER: 94:191938

TITLE: 2-Hydroxy-4-methylbenzene compounds

INVENTOR(S): Eiden, Fritz; Teupe, Ernst Guenther; Leister, Hans
Peter; Mayer, Dieter

PATENT ASSIGNEE(S): Thiemann, Dr., G.m.b.H. Chem.-Pharm. Fabrik, Fed. Rep.
Ger.

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

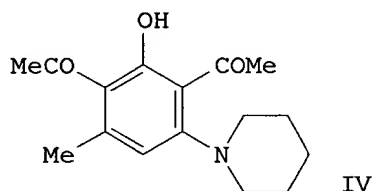
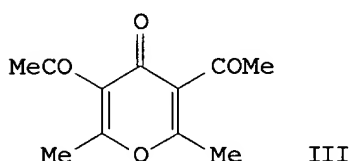
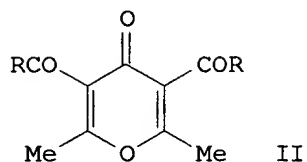
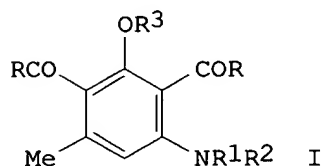
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2922488	A1	19801211	DE 1979-2922488	19790601

GI



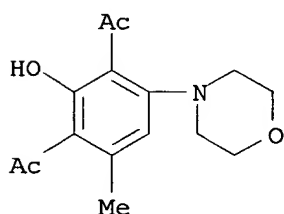
AB I [R = Me or C1-4 alkoxy; R₁ and R₂ were C1-4 alkyl or (R₁R₂N =) heterocyclyl; R₃ = H, Me, or Et] were prepd. by reaction of II with secondary amines. Thus 2 g III and 950 mg piperidine were heated 1.5 h at 100.degree. to give 84% IV.

IT 77600-95-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 77600-95-4 CAPLUS

CN Ethanone, 1,1'-[2-hydroxy-4-methyl-6-(4-morpholinyl)-1,3-phenylene]bis-
(9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

26.73

SINCE FILE

ENTRY

TOTAL

SESSION

167.22

TOTAL

SESSION

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Page 13

CA SUBSCRIBER PRICE

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STN INTERNATIONAL LOGOFF AT 13:04:16 ON 16 DEC 2002

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12/16/2002

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 2002:185097 CAPLUS

DN 136:247591

TI Preparation of arylmorpholines as inhibitors of DNA-dependent protein kinase and methods to potentiate cancer treatment

IN Halbrook, James; Kesicki, Edward; Burgess, Laurence E.; Schlachter, Stephen T.; Eary, Charles T.; Schiro, Justin G.; Huang, Hongmei; Evans, Michael; Han, Yongxin

PA Icos Corporation, USA

SO PCT Int. Appl., 247 pp.

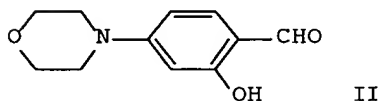
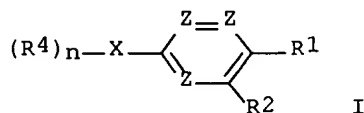
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002020500	A2	20020314	WO 2001-US26709	20010828
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2001088432	A5	20020322	AU 2001-88432	20010828
	US 2002165218	A1	20021107	US 2001-941897	20010828
PRAI	US 2000-229899P	P	20000901		
	WO 2001-US26709	W	20010828		
OS	MARPAT 136:247591				
GI					



AB Comps. that inhibit DNA-dependent protein kinase, I [n = 0-4; X = (un)substituted 4-7 membered aliph. ring contg. 0-3 heteroatoms consisting of N, O and S (X = morpholinyl preferred); Z = independently N or CR3; R3 = independently H, halo, CHO, alkoxy, etc.; R1 = H, (un)substituted alkyl, cycloalkyl, CO, NO2, etc.; R2 = H, (un)substituted alkyl, carbamoyl, alkoxy, sulfamyl, etc.; with provision when X = morpholinyl, R2 and R4 and R3 = H at each occurrence, then R1 is different from COMe, phenylalkene, and NO2; and with the provision that when X = morpholinyl, R4 = H and Z = N at each occurrence, then R1 and R2 when taken together is different from triazole], were prepd. and compns. of I with other antineoplastic agents are claimed for use in cancer treatment therapy. Thus, II was prepd. in 23% yield via formylation of 3-(4-morpholinyl)phenol. II demonstrated an IC50 value of 400 nM in DNA-PK assay. Preliminary results of animal tumor

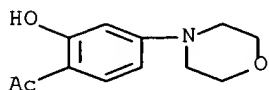
model studies indicate II enhanced the tumorigenic effect of total body irradiation (using 100-500 rad gamma-radiation, II delayed tumor growth 1.2 to 1.8-fold relative to animals receiving radiation only).

IT 404009-40-1P

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (target compound; preparation of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

RN 404009-40-1 CAPLUS

CN Ethanone, 1-[2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

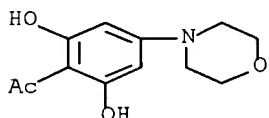


IT 404011-08-1P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (target compound; preparation of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

RN 404011-08-1 CAPLUS

CN Ethanone, 1-[2,6-dihydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



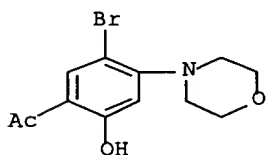
IT 404009-52-5P 404009-54-7P 404009-56-9P

404009-58-1P 404009-60-5P 404009-62-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (target compound; preparation of arylmorpholines as inhibitors of DNA-dependent protein kinase for cancer treatment)

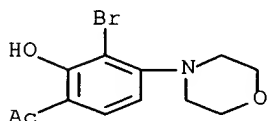
RN 404009-52-5 CAPLUS

CN Ethanone, 1-[5-bromo-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



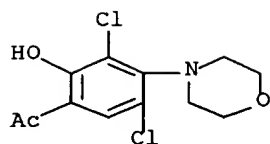
RN 404009-54-7 CAPLUS

CN Ethanone, 1-[3-bromo-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



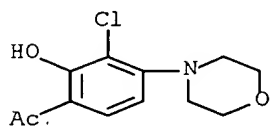
RN 404009-56-9 CAPLUS

CN Ethanone, 1-[3,5-dichloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



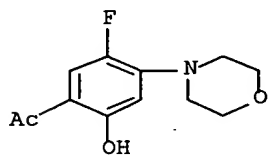
RN 404009-58-1 CAPLUS

CN Ethanone, 1-[3-chloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



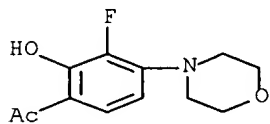
RN 404009-60-5 CAPLUS

CN Ethanone, 1-[5-fluoro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

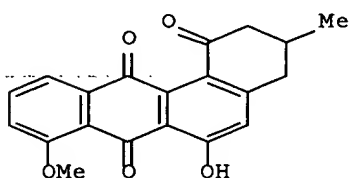


RN 404009-62-7 CAPLUS

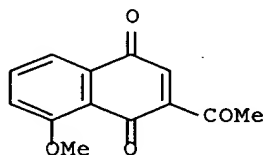
CN Ethanone, 1-[3-fluoro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:60509 CAPLUS
 DN 134:178381
 TI A general approach to angucyclines: synthesis of hatomarubigin A, rubiginone B2, antibiotic X-1488E, 6-hydroxytetrangulol, and tetrangulol
 AU Parker, Kathlyn A.; Ding, Qing-Jie
 CS Department of Chemistry, Brown University, Providence, RI, 02912, USA
 SO Tetrahedron (2000), 56(52), 10249-10254
 CODEN: TETRAB; ISSN: 0040-4020
 PB Elsevier Science Ltd.
 DT Journal
 LA English
 GI



I



II

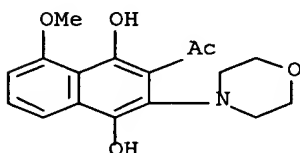
AB (.-.)-Hatomarubigin A (I) was prepd. in 41% yield in a single procedure from acyl naphthoquinone II and 5-methylcyclohexane-1,3-dione. The net reaction consists of Michael addn. to an acyl quinone followed by intramol. aldol condensation. Hatomarubigin A (I) then served as a common intermediate in syntheses of the angucyclinone antibiotics (.-.)-rubiginone B2, antibiotic X-1488E, 6-hydroxytetrangulol, and tetrangulol.

IT **326803-13-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (synthesis of angucyclinones hatomarubigin A, rubiginone B2, antibiotic X-1488E, 6-hydroxytetrangulol, and tetrangulol)

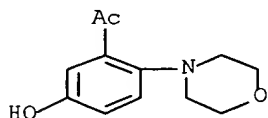
RN 326803-13-8 CAPLUS

CN Ethanone, 1-[1,4-dihydroxy-8-methoxy-3-(4-morpholinyl)-2-naphthalenyl]-
 (9CI) (CA INDEX NAME)

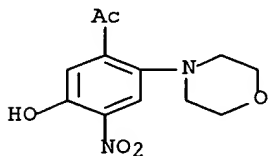


RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

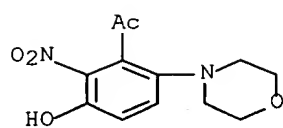
L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2002 ACS
 AN 1997:335235 CAPLUS
 DN 126:343344
 TI Diels-Alder Reaction of 2-Amino-Substituted Furans as a Method for
 Preparing Substituted Anilines
 AU Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua
 CS Department of Chemistry, Emory University, Atlanta, GA, 30322, USA
 SO Journal of Organic Chemistry (1997), 62(12), 4088-4096
 CODEN: JOCEAH; ISSN: 0022-3263
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 126:343344
 AB 5-Amino-2-furancarboxylic acid Me ester undergoes a facile Diels-Alder
 cycloaddn. with a variety of dienophiles to afford ring-opened
 cycloadducts that are readily dehydrated using BF₃.cntdot.OEt₂ to give
 polysubstituted anilines. In each case, the cycloaddn. proceeds with
 high regioselectivity, with the electron-withdrawing group being located
 ortho to the amino group. The most favorable FMO interaction is between the
 HOMO of the furanamine and the LUMO of the dienophile. The at. coeff.
 at the ester carbon of the furan is larger than that at the amino center, and
 this nicely accommodates the obsd. regioselectivity. The [4 +
 2]-cycloaddn. of N-(5-nitrofuranyl)morpholine with Me vinyl ketone
 affords a mixt. of three phenols. One of the phenols is derived from a
 Diels-Alder reaction followed by nitro group ejection and subsequent
 aromatization. The remaining two phenols are the result of cleavage of
 the initially formed oxabicyclic intermediate with concomitant migration
 of the nitro group. The mild reaction conditions with which
 furan-2-carbamic acid tert-Bu ester undergoes Diels-Alder cycloaddn.
 with N-phenylmaleimide allow for the ready isolation of the initial
 oxybridged cycloadduct.
 IT 189746-76-7P 189746-77-8P 189746-80-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (Diels-Alder reaction of 2-aminofurans as method for prepg. anilines)
 RN 189746-76-7 CAPLUS
 CN Ethanone, 1-[5-hydroxy-2-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)



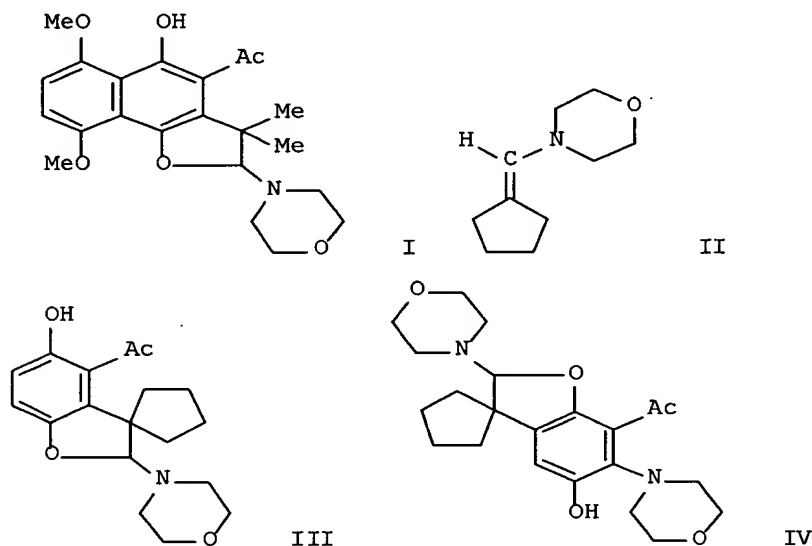
RN 189746-77-8 CAPLUS
 CN Ethanone, 1-[5-hydroxy-2-(4-morpholinyl)-4-nitrophenyl]- (9CI) (CA
 INDEX NAME)



RN 189746-80-3 CAPLUS
 CN Ethanone, 1-[3-hydroxy-6-(4-morpholinyl)-2-nitrophenyl]- (9CI) (CA
 INDEX NAME)



L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2002 ACS
 AN 1996:421865 CAPLUS
 DN 125:167477
 TI Studies on quinone. 29. Unusual reactions of quinones with enamines
 AU Valderrama, J. A.; Paredes, M. C.; Pessoa-Mahana, C. D.
 CS Fac. Quim., Pontificia Univ. Catolica Chile, Santiago, 306, Chile
 SO Anales de Quimica (1995), 91(3-4), 214-219
 CODEN: ANQUEX; ISSN: 1130-2283
 PB Real Sociedad Espanola de Quimica
 DT Journal
 LA Spanish
 GI



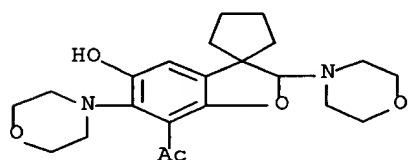
AB The reaction of 5,8-dimethoxy-1,4-naphthoquinone 4, 2-acetyl-5,8-dimethoxy-1,4-naphthoquinone 6 and 2-acetyl-1,4-benzoquinone 10 with enamines is reported. Quinone 4 reacts with 4-isobutenylmorpholine to afford 5,8-dimethoxy-2-morpholino-1,4-naphthoquinone, whereas acetylnaphthoquinone 6 reacts with the same enamine to give the C-alkylation product I. Acetylbenzoquinone 10 reacts with enamine II to yield heterocycles III and IV generated through parallel C- and N-alkylation reactions.

IT **180196-68-3P**

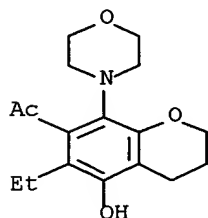
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 180196-68-3 CAPLUS

CN Ethanone, 1-(5-hydroxy-2,6-di-4-morpholinylspiro[benzofuran-3(2H),1'-cyclopentan]-7-yl)- (9CI) (CA INDEX NAME)



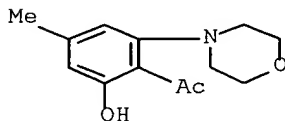
L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2002 ACS
 AN 1991:492491 CAPLUS
 DN 115:92491
 TI Chromium-mediated cyclizations of cross-conjugated ketoketenes in 8- and 10e- processes
 AU Brandvold, Timothy A.; Wulff, William D.; Rheingold, Arnold L.
 CS Dep. Chem., Univ. Chicago, Chicago, IL, 60637, USA
 SO Journal of the American Chemical Society (1991), 113(14), 5459-61
 CODEN: JACSAT; ISSN: 0002-7863
 DT Journal
 LA English
 OS CASREACT 115:92491
 AB The reaction of Fischer carbene complexes, e.g., (CO)₂Cr:C(OMe)Me, with alkynes can produce two stereoisomeric .eta.1,.eta.3-vinyl carbene and two .eta.4-vinyl ketene complexed intermediates that differ as to which of the two substituents on the original carbene carbon is syn to the metal. With simple alkynes, the alkoxy group prefers to be anti to the metal and the reaction proceeds to give the typical phenol products. With keto alkynes, the stereochem. is reversed as a consequence of a proposed stereoelectronic preference for the alkoxy and carbonyl groups to be anti in the vinyl carbene complex intermediate. The lactone products result from 8e- bicyclizations of cross-conjugated ketoketene intermediates. This reaction was shown to be possible for other configurations involving similar 8e- processes giving isomeric lactones, and also for 10e- bicyclizations leading to 7-membered ring fused butyrolactones.
 IT **135073-91-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 135073-91-5 CAPLUS
 CN Ethanone, 1-[6-ethyl-3,4-dihydro-5-hydroxy-8-(4-morpholinyl)-2H-1-benzopyran-7-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2002 ACS
 AN 1985:422242 CAPLUS
 DN 103:22242
 TI Pyran derivatives. 107. Preparation and reactions of
 2-acetyl-3-amino-5-hydroxy-2-cyclohexenones; benzene derivatives from
 pyrones
 AU Eiden, Fritz; Patzelt, Gertrud
 CS Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, 8000/2, Fed.
 Rep.
 Ger.
 SO Archiv der Pharmazie (Weinheim, Germany) (1985), 318(4), 328-40
 CODEN: ARPMAS; ISSN: 0365-6233
 DT Journal
 LA German
 OS CASREACT 103:22242
 GI

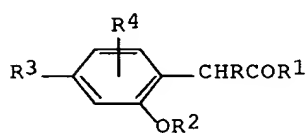
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Acetylpyrene I reacted with HNR22 [NR22 = NMe2, NEt2, NMeCH2CH2Ph,
 piperidino, morpholino, perhydroazepine, 4-(2-pyridyl)-1-piperazinyl,
 4-methyl-1-piperazinyl, 4-[3-(trifluoromethyl)phenyl]-1-piperazinyl,
 1-piperazinyl] gave aminocyclohexenones II and III and aminophenols IV.
 NH3 and 1,2-C6H4(NH2)2 gave pyridinones V (R = H, 2-H2NC6H4) or VI. The
 amine group in II (R2 = Me) (VII) was replaced by reaction with NH3,
 amines, amino acids, and hydrazine derivs. VII cyclized with
 PhC(:NH)NH2
 or H2NNHR1 (R1 = Ph, Me) to give quinazoline VIII or indazoles IX.
 Treating II, III, the transamination analogs of VII, VIII, or IX with
 KOH
 in EtOH gave the corresponding phenol dehydration products.
 IT **97066-10-9P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 97066-10-9 CAPLUS
 CN Ethanone, 1-[2-hydroxy-4-methyl-6-(4-morpholinyl)phenyl]- (9CI) (CA
 INDEX
 NAME)

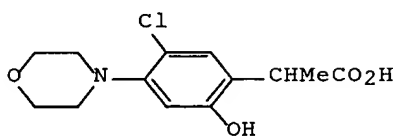


L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2002 ACS
 AN 1983:575385 CAPLUS
 DN 99:175385
 TI Aminophenol acetic acid
 IN Wenk, Paul; Breitenstein, Werner; Baumann, Marcus
 PA Ciba-Geigy A.-G. , Switz.
 SO Brit. UK Pat. Appl., 45 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2109373	A1	19830602	GB 1982-30352	19821025
	GB 2109373	B2	19860115		
	EP 82109	A2	19830622	EP 1982-810440	19821022
	EP 82109	A3	19850417		
	R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
	FI 8203641	A	19830429	FI 1982-3641	19821025
	ES 516843	A1	19850516	ES 1982-516843	19821026
	DK 8204760	A	19830429	DK 1982-4760	19821027
	NO 8203586	A	19830429	NO 1982-3586	19821027
	AU 8289824	A1	19830505	AU 1982-89824	19821027
	ZA 8207845	A	19830629	ZA 1982-7845	19821027
	HU 30695	O	19840328	HU 1982-3449	19821027
	JP 58150544	A2	19830907	JP 1982-191738	19821028
	DD 208798	A5	19840411	DD 1982-244347	19821028
	ES 529377	A1	19851101	ES 1984-529377	19840201
	ES 529378	A1	19851101	ES 1984-529378	19840201
	ES 529379	A1	19851101	ES 1984-529379	19840201
	ES 529380	A1	19851201	ES 1984-529380	19840201
	ES 529376	A1	19860601	ES 1984-529376	19840201
	ES 537285	A1	19850816	ES 1984-537285	19841031
PRAI	CH 1981-6883		19811028		
GI					



I



III

AB Phenylacetic acids I (R = H₁, aliph.; R₁ = OH, esterified OH, amino; R₂ =
 =
 H, acyl; R₃ = amino; R₄ = H, substituent) were prepd. as inflammation
 inhibitors, analgesics, and sunscreens (no data). Thus, treating
 imidazo[1,2-a]pyridin-2(3H)-one-HCl with maleic acid gave its
 3-(1,2-diacarboxyethyl) deriv. which was treated with MeCOCH:CH₂ and
 hydrolyzed to give 4-methyl-3-(3-oxobutyl)maleic anhydride (II). II was
 treated with morpholinium benzoate to give 3-methyl-6-
 morpholinobenzofuran-
 2(3H)-one which was converted to its 5-chloro deriv. and hydrolyzed to
 III.

IT **87203-04-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);

RACT

(Reactant or reagent)

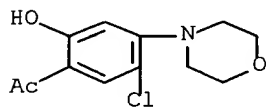
(prepn. and methylation of)

RN 87203-04-1 CAPLUS

CN Ethanone, 1-[5-chloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA

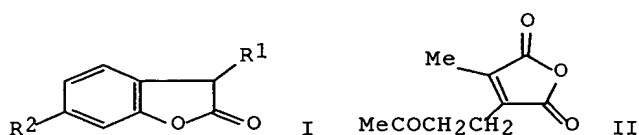
INDEX

NAME)



L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2002 ACS
 AN 1983:539751 CAPLUS
 DN 99:139751
 TI Furans
 IN Wenk, Paul; Breitenstein, Werner; Baumann, Marcus
 PA Ciba-Geigy A.-G. , Switz.
 SO Eur. Pat. Appl., 103 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 78241	A2	19830504	EP 1982-810439	19821022
	EP 78241	A3	19840328		
	R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
	US 4426380	A	19840117	US 1982-435595	19821021
	FI 8203640	A	19830429	FI 1982-3640	19821025
	GB 2110210	A1	19830615	GB 1982-30351	19821025
	GB 2110210	B2	19850703		
	ES 516842	A1	19840116	ES 1982-516842	19821026
	CA 1199635	A1	19860121	CA 1982-414197	19821026
	DK 8204759	A	19830429	DK 1982-4759	19821027
	NO 8203585	A	19830429	NO 1982-3585	19821027
	AU 8289823	A1	19830505	AU 1982-89823	19821027
	ZA 8207844	A	19830629	ZA 1982-7844	19821027
	DD 204699	A5	19831207	DD 1982-244314	19821027
	HU 29609	O	19840228	HU 1982-3447	19821027
	JP 58126882	A2	19830728	JP 1982-191737	19821028
	US 4451462	A	19840529	US 1983-542334	19831017
	ES 526890	A1	19851001	ES 1983-526890	19831028
	ES 526892	A1	19851001	ES 1983-526892	19831028
	ES 526891	A1	19860201	ES 1983-526891	19831028
PRAI	CH 1981-6882		19811028		
	US 1982-435595		19821021		
GI					

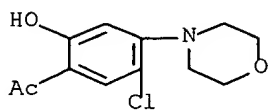


AB Benzofuranones I (R₁ = H, aliph. group; R₂ = amino disubstituted with hydrocarbonyl; benzo ring may be addnl. substituted) and their salts and(or) isomers, useful as inflammation inhibitors, analgesics, and sunscreens for skin (no data), were prepd. Imidazo[1,2-a]pyridin-2(3H)-one hydrochloride in aq. NaOH added to maleic acid to give 3-(1,2-dicarboxyethyl)imidazo[1,2-a]pyridin-2-(3H)-one. The HCl salt of this added to MeCOCH:CH₂ and the product was decarboxylated and hydrolyzed to give maleic anhydride II. This reacted with morpholinium benzoate in refluxing C₆H₆ in 48 h with H₂O sepn. to give I (R₁ = Me, R₂ = morpholino).

IT **87203-04-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent) (prepn. and etherification of)

RN 87203-04-1 CAPLUS

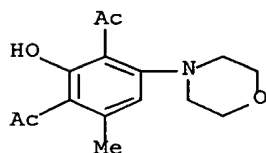
CN Ethanone, 1-[5-chloro-2-hydroxy-4-(4-morpholinyl)phenyl]- (9CI) (CA
INDEX NAME)



L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2002 ACS
AN 1981:568872 CAPLUS
DN 95:168872
TI Benzene derivatives from 4-pyrones: the reaction of 3,5-diacetyl- and
3,5-bisethoxycarbonyl-4-pyrones with secondary amines
AU Eiden, Fritz; Teupe, Ernst Guenther; Leister, Hans Peter
CS Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, 8000/2, Fed.
Rep. Ger.
SO Archiv der Pharmazie (Weinheim, Germany) (1981), 314(4), 347-55
CODEN: ARPMAS; ISSN: 0365-6233
DT Journal
LA German
GI

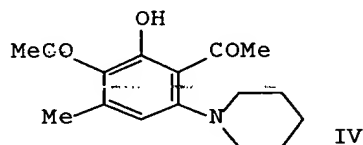
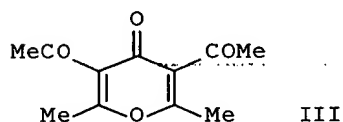
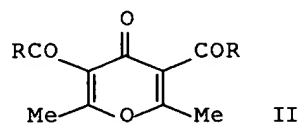
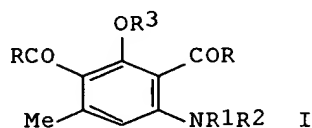
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The reactions of title pyrones I (R = EtO, Me) with cyclic R12NH (e.g.,
piperidine, morpholine) gave phenols II and, in the case of I (R = Me)
with piperazine, bisphenol III. II (R = Me, NR12 = piperidino) and III
reacted with Me2NCH(OCHMe2)2 to give IV and V. The reaction of IV with
hydrazines gave pyrazoles VI (R2 = Ph, Me). Hydrolysis of II (R = Me,
NR12 = 4-cyano-4-phenylpiperidino) gave VII (R3 = CONH2, CO2Et).
IT **77600-95-4P** --
RL: SPN... (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 77600-95-4 CAPLUS
CN Ethanone, 1,1'-[2-hydroxy-4-methyl-6-(4-morpholinyl)-1,3-phenylene]bis-
(9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2002 ACS
 AN 1981:191938 CAPLUS
 DN 94:191938
 TI 2-Hydroxy-4-methylbenzene compounds
 IN Eiden, Fritz; Teupe, Ernst Guenther; Leister, Hans Peter; Mayer, Dieter
 PA Thiemann, Dr., G.m.b.H. Chem.-Pharm. Fabrik, Fed. Rep. Ger.
 SO Ger. Offen., 12 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2922488	A1	19801211	DE 1979-2922488	19790601
GI					

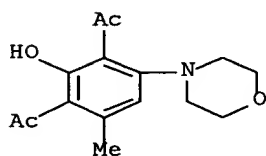


AB I [R = Me or C1-4 alkoxy; R₁ and R₂ were C1-4 alkyl or (R₁R₂N =) heterocyclyl; R₃ = H, Me, or Et] were prepd. by reaction of II with secondary amines. Thus 2 g III and 950 mg piperidine were heated 1.5 h at 100.degree. to give 84% IV.

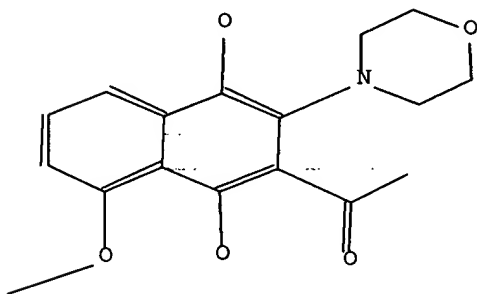
IT **77600-95-4P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 77600-95-4 CAPLUS

CN Ethanone, 1,1'-[2-hydroxy-4-methyl-6-(4-morpholinyl)-1,3-phenylene]bis-
 (9CI) (CA INDEX NAME)



Beilstein Records (BRN): 8718066
 Chemical Name (CN): 1-(1,4-dihydroxy-8-methoxy-3-morpholin-
 4-yl-naphthalen-2-yl)-ethanone
 Autonom Name (AUN): 1-(1,4-dihydroxy-8-methoxy-3-morpholin-
 4-yl-naphthalen-2-yl)-ethanone
 Molec. Formula (MF): C17 H19 N O5
 Molecular Weight (MW): 317.34
 Lawson Number (LN): 30824, 15948, 289
 Compound Type (CTYPE): heterocyclic
 Constitution ID (CONSID): 7384156
 Tautomer ID (TAUTID): 8213631
 Entry Date (DED): 2001/04/26
 Update Date (DUPD): 2001/04/26



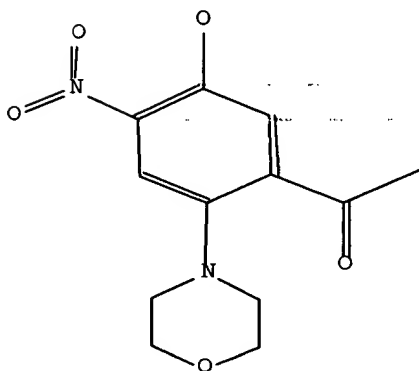
Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Beilstein Records (BRN): 7770152
 Chemical Name (CN): 1-(5-hydroxy-2-morpholin-4-yl-4-nitrophenyl)ethanone
 Molec. Formula (MF): C12 H14 N2 O5
 Molecular Weight (MW): 266.25
 Lawson Number (LN): 30824, 15785
 Compound Type (CTYPE): heterocyclic
 Constitution ID (CONSID): 6596594
 Tautomer ID (TAUTID): 7334998
 Beilstein Citation (BSO): 6-27
 Entry Date (DED): 1998/03/03
 Update Date (DUPD): 1998/03/04



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	2

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
------	------	------------

RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
159 - 160	1

Reference(s):

1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060

Nuclear Magnetic Resonance:

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	1H
Solvents (.SOL):	CDCl3
Reference(s): -	
1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060	

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	13C
Solvents (.SOL):	CDCl3
Reference(s):	
1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060	

Infrared Spectrum:

Descript	Solvent	Ref.	Note
ion			
(.KW)	(.SOL)		
=====+=====+=====+=====			
Bands	CHCl3	1	1

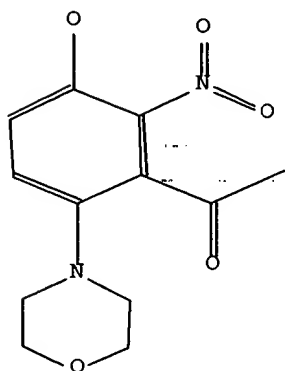
Reference(s):

1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060

Notes(s):

1. 3272 - 1618 cm⁻¹

Beilstein Records (BRN): 7769291
 Chemical Name (CN): 1-(5-hydroxy-2-morpholin-4-yl-6-nitrophenyl)ethanone
 Molec. Formula (MF): C12 H14 N2 O5
 Molecular Weight (MW): 266.25
 Lawson Number (LN): 30824, 15785
 Compound Type (CTYPE): heterocyclic
 Constitution ID (CONSID): 6596593
 Tautomer ID (TAUTID): 7334999
 Beilstein Citation (BSO): 6-27
 Entry Date (DED): 1998/03/03
 Update Date (DUPD): 1998/03/04



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1

Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
156 - 157	1

Reference(s):

1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060

Nuclear Magnetic Resonance:

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	1H
Solvents (.SOL):	CDCl3
Reference(s):	
1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060	

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	13C
Solvents (.SOL):	CDCl3
Reference(s):	
1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060	

NMR

Description (.KW):	Spin-spin coupling constants
Solvents (.SOL):	CDCl3
Note(s) (.COM):	1H-1H
Reference(s):	
1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060	

Infrared Spectrum:

Descript ion	Solvent	Ref.	Note
(.KW)	(.SOL)		
=====+=====+=====			
Bands	CHCl3	1	1

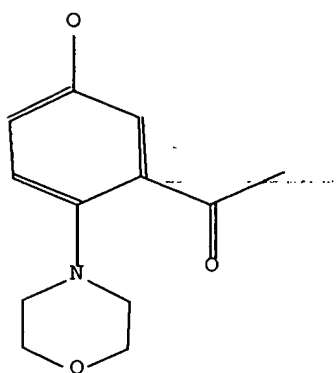
Reference(s):

1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060

Notes(s):

1. 3285 - 1612 cm**(-1)

Beilstein Records (BRN): 7762227
 Chemical Name (CN): 1-(5-hydroxy-2-morpholin-4-ylphenyl)ethanone
 Molec. Formula (MF): C12 H15 N O3
 Molecular Weight (MW): 221.26
 Lawson Number (LN): 30824, 15784
 Compound Type (CTYPE): heterocyclic
 Constitution ID (CONSID): 6583197
 Tautomer ID (TAUTID): 7327405
 Beilstein Citation (BSO): 6-27
 Entry Date (DED): 1998/03/03
 Update Date (DUPD): 1998/03/04



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	2

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1

Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+=====	
122 - 123	1

Reference(s):

1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060

Nuclear Magnetic Resonance:

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	1H
Solvents (.SOL):	CDCl3
Reference(s):	
1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060	

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	13C
Solvents (.SOL):	CDCl3
Reference(s):	
1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060	

Infrared Spectrum:

Descript ion	Solvent	Ref.	Note
(.KW)	(.SOL)		
=====+=====+=====+=====			
Bands	CHCl3	1	1

Reference(s):

1. Padwa, Albert; Dimitroff, Martin; Waterson, Alex G.; Wu, Tianhua, J.Org.Chem., CODEN: JOCEAH, 62(12), <1997>, 4088-4096; BABS-6062060

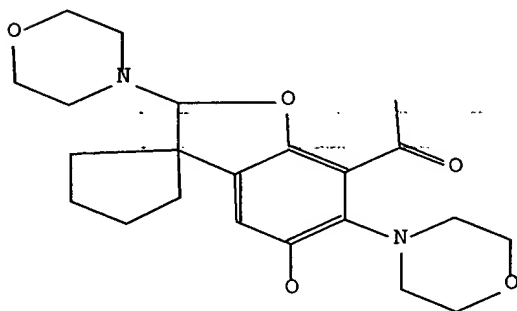
Notes(s):

1. 2829 - 1598 cm**(-1)

Beilstein Records (BRN): 7394755
 Chemical Name (CN): 2-ciclopentanespiro-2,6-dimorfolino-5-hidroxi-6-acetil-2,3-

dihidrobenzofurano

Molec. Formula (MF): C22 H30 N2 O5
 Molecular Weight (MW): 402.49
 Lawson Number (LN): 30824, 20641
 Compound Type (CTYPE): heterocyclic
 Constitution ID (CONSID): 6305766
 Tautomer ID (TAUTID): 6977174
 Beilstein Citation (BSO): 6-27
 Entry Date (DED): 1996/04/26
 Update Date (DUPD): 1996/04/26



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	3

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====	=====	=====

RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		

=====+=====+=====

182 - 183	cyclohexane	1
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Reference(s):

- Valderrama, J. A.; Paredes, M. C.; Pessoa-Mahana, C. D., An.Quim., CODEN: ANQUEX, 91(3-4), <1995>, 214-219; BABS-6001318

Nuclear Magnetic Resonance:

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	1H
Solvents (.SOL):	CDCl3
Reference(s):	-

- Valderrama, J. A.; Paredes, M. C.; Pessoa-Mahana, C. D., An.Quim., CODEN: ANQUEX, 91(3-4), <1995>, 214-219; BABS-6001318

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	13C
Solvents (.SOL):	CDCl3
Reference(s):	

- Valderrama, J. A.; Paredes, M. C.; Pessoa-Mahana, C. D., An.Quim., CODEN: ANQUEX, 91(3-4), <1995>, 214-219; BABS-6001318

NMR

Description (.KW):	Spin-spin coupling constants
Solvents (.SOL):	CDCl3
Note(s) (.COM):	1H-1H
Reference(s):	

- Valderrama, J. A.; Paredes, M. C.; Pessoa-Mahana, C. D., An.Quim., CODEN: ANQUEX, 91(3-4), <1995>, 214-219; BABS-6001318

Infrared Spectrum:

Descript	Solvent	Ref.	Note
ion			
(.KW)	(.SOL)		

=====+=====+=====+=====

Bands	KBr	1	1
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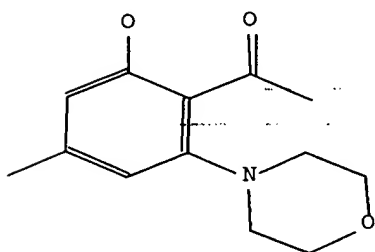
Reference(s):

- Valderrama, J. A.; Paredes, M. C.; Pessoa-Mahana, C. D., An.Quim., CODEN: ANQUEX, 91(3-4), <1995>, 214-219; BABS-6001318

Notes(s):

- 3250 - 1200 cm**(-1)

Beilstein Records (BRN): 6209048
 Chemical Name (CN): 2-Hydroxy-4-methyl-6-morpholino-acetophenon
 Autonom Name (AUN): 1-(2-hydroxy-4-methyl-6-morpholin-4-yl-phenyl)-ethanone
 Molec. Formula (MF): C13 H17 N O3
 Molecular Weight (MW): 235.28
 Lawson Number (LN): 30824, 15794
 Compound Type (CTYPE): heterocyclic
 Constitution ID (CONSID): 5418483
 Tautomer ID (TAUTID): 5928124
 Beilstein Citation (BSO): 6-27
 Entry Date (DED): 1993/10/20
 Update Date (DUPD): 1993/10/20



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	1
UVS	UV and Visible Spectrum	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	3

Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====+=====+=====		
75	aq. ethanol	1

Reference(s):

1. Eiden, Fritz; Patzelt, Gertrud, Arch.Pharm.(Weinheim Ger.), CODEN: ARPMAS, 318(4), <1985>, 328-340; BABS-5775996

Nuclear Magnetic Resonance:

NMR

Description (.KW):	Chemical shifts
Nucleus (.NUC):	1H
Solvents (.SOL):	CDC13
Reference(s):	

1. Eiden, Fritz; Patzelt, Gertrud, Arch.Pharm.(Weinheim Ger.), CODEN: ARPMAS, 318(4), <1985>, 328-340; BABS-5775996

Infrared Spectrum:

Descript	Solvent	Ref.	Note
ion			
(.KW)	(.SOL)		
=====+=====+=====+=====			
Bands	KBr	1	1

Reference(s):

1. Eiden, Fritz; Patzelt, Gertrud, Arch.Pharm.(Weinheim Ger.), CODEN: ARPMAS, 318(4), <1985>, 328-340; BABS-5775996

Notes(s):

1. 1620 - 1600 cm**(-1)

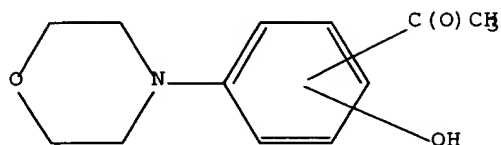
UV and Visible Spectrum:

Description	Solvent	Absorption	Ext./Abs. Coeff.	Ref.
		Maxima		
(.KW)	(.SOL)	(.AM)	(.EAC)	
		(nm)	(I/MOL*CM)	
=====+=====+=====+=====+=====				
Absorption maxima	dioxane	244, 300, 354	25704, 9333, 5248	1

Reference(s):

1. Eiden, Fritz; Patzelt, Gertrud, Arch.Pharm.(Weinheim Ger.), CODEN: ARPMAS, 318(4), <1985>, 328-340; BABS-5775996

=> d l1; d his; log y
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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FILE 'REGISTRY' ENTERED AT 18:01:42 ON 18 DEC 2002

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 17 S L1 FUL

FILE 'CAPLUS' ENTERED AT 18:02:18 ON 18 DEC 2002

L4 10 S L3

FILE 'BEILSTEIN' ENTERED AT 18:02:50 ON 18 DEC 2002

L5 0 S L1
L6 9 S L1 FUL
L7 8 S L6/COM
L8 6 S L7 NOT L4

FILE 'MARPAT' ENTERED AT 18:05:07 ON 18 DEC 2002

L9 7 S L1
L10 270 S L1 FUL

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	99.46	471.54
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-6.20

STN INTERNATIONAL LOGOFF AT 18:06:10 ON 18 DEC 2002